Welcome to NSF Day!

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UNIVERSITY OF WASHINGTON
BOTHELL

What NSF Does

NSF Vision

Advance discovery, innovation, and education beyond the frontiers of current knowledge

Empower future generations in science and engineering

What NSF Does

NSF Mission

- Promote the progress of science
- Advance the national health, prosperity, and welfare
- Secure the national defense; and for other purposes

***NSF will relocate to Alexandria, VA in 2018**

NSF Core Values

Accountability for Public Benefit

Scientific Excellence

Organizational Excellence

Learning

Inclusiveness

The NSF in a Nutshell

- Independent agency
- Co-lead by a Director and National Science Board
- Supports basic research & education
- Uses grant mechanism through competitive merit review
- Discipline-based structure
- Cross-disciplinary mechanisms
- Use of Rotators/IPAs
- Low overhead (~6%)
- Highly automated

Our Organization

NSF by the Numbers

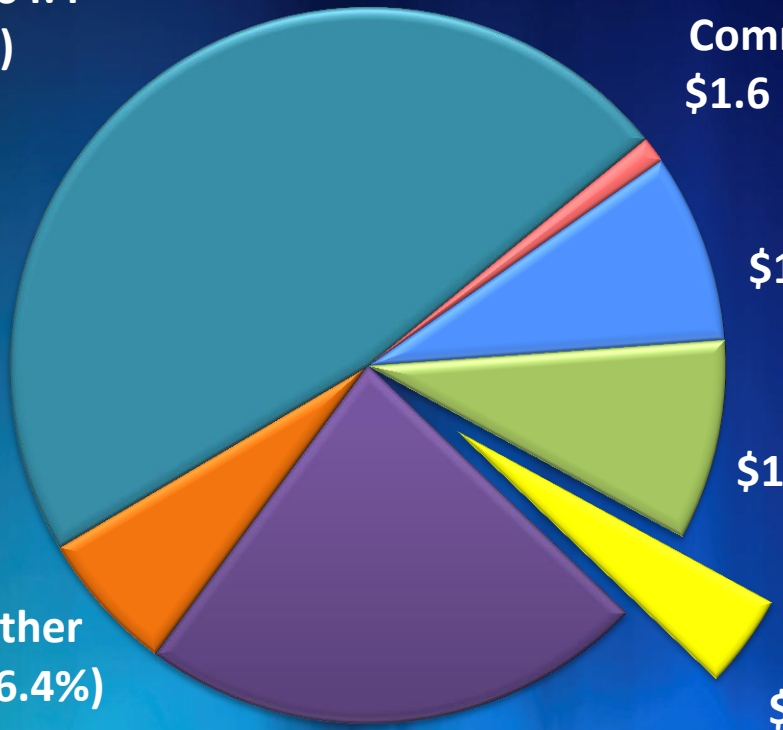
1922	Colleges, universities, and other institutions NSF funded
10,800	Competitive awards NSF funded
47,800	Students supported by NSF Graduate Research Fellowships (since 1952)
50,000	Proposals evaluated through competitive merit review
233,000	(Total) Reviews conducted
299,000	Individuals NSF directly supported (researchers, postdocs, trainees, teachers, and students)
$6.9 billion	FY 2013 Budget Actuals
$7.2 billion	FY 2014 Budget Actuals
Figures represent FY 13 actuals	

NSF Budget: FY 2014 and FY 2015

(dollars in millions)		
	FY 2014 Plan	FY 2015 Request
Research & Related Activities (R&RA)	$5,802	$5,807
Education & Human Resources	845	890
Major Research Equipment & Facilities Construction	200	201
Agency Operations & Award Management (AOAM)	306	338
National Science Board	4	4
Office of Inspector General	14	14
Total, NSF	$7,172	$7,255
Opportunity, Growth, and Security Initiative	-	552

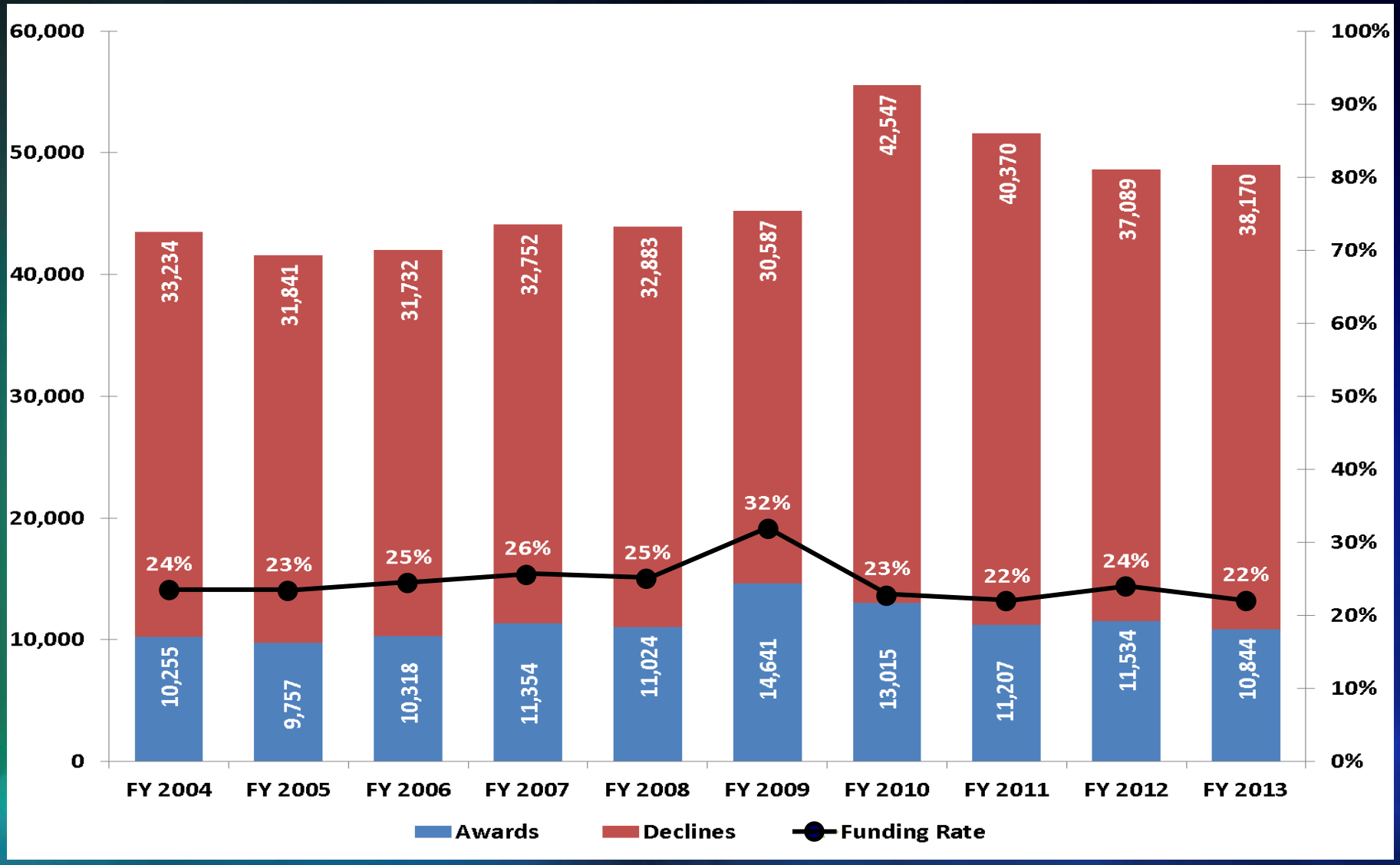
NSF in Perspective

2015 Total Federal R&D Budget for the United States ($135.4 billion)



*Dollar Amounts in billions

NSF Competitive Awards, Declines & Funding Rates

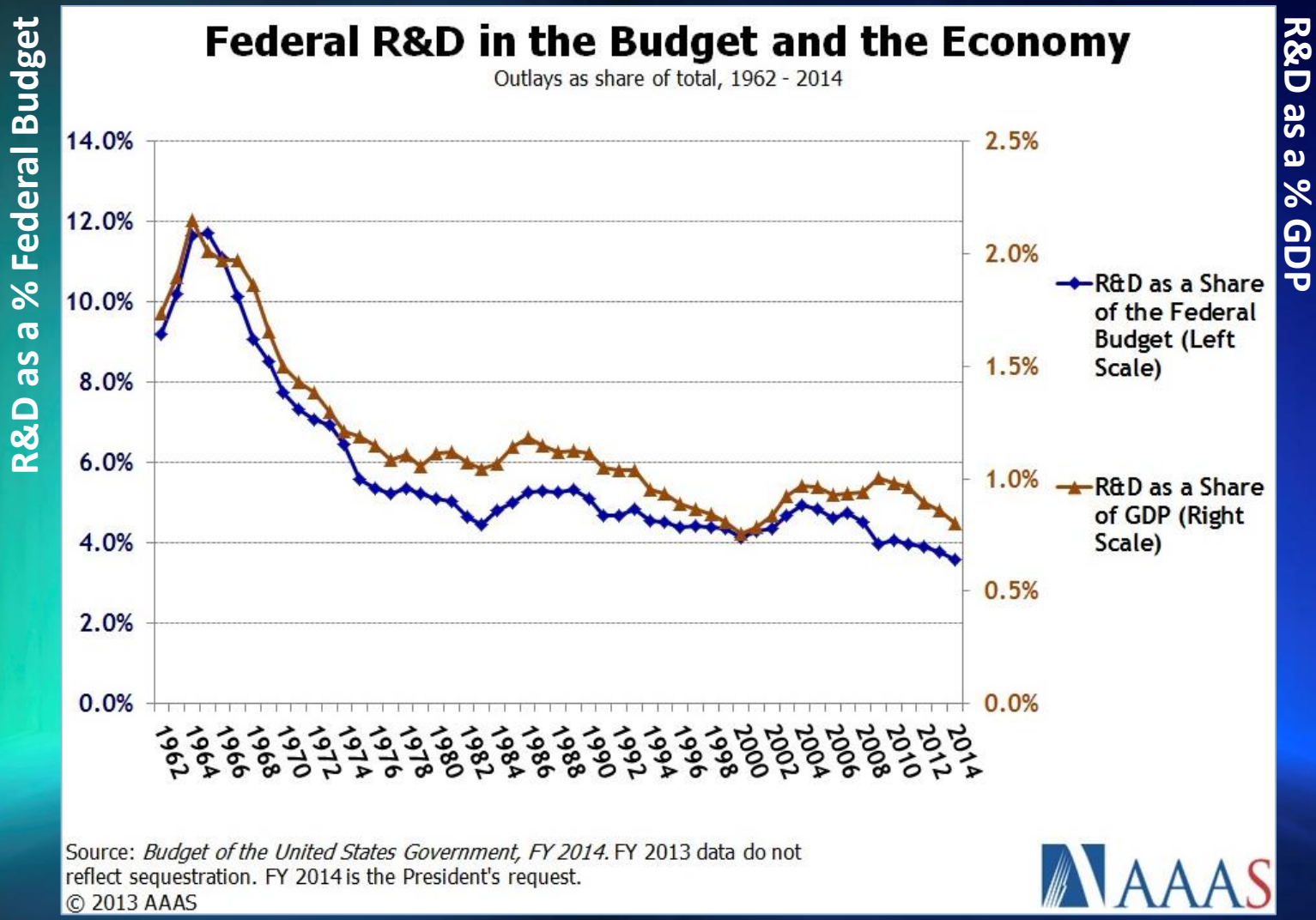


NSF's Culture of Communication

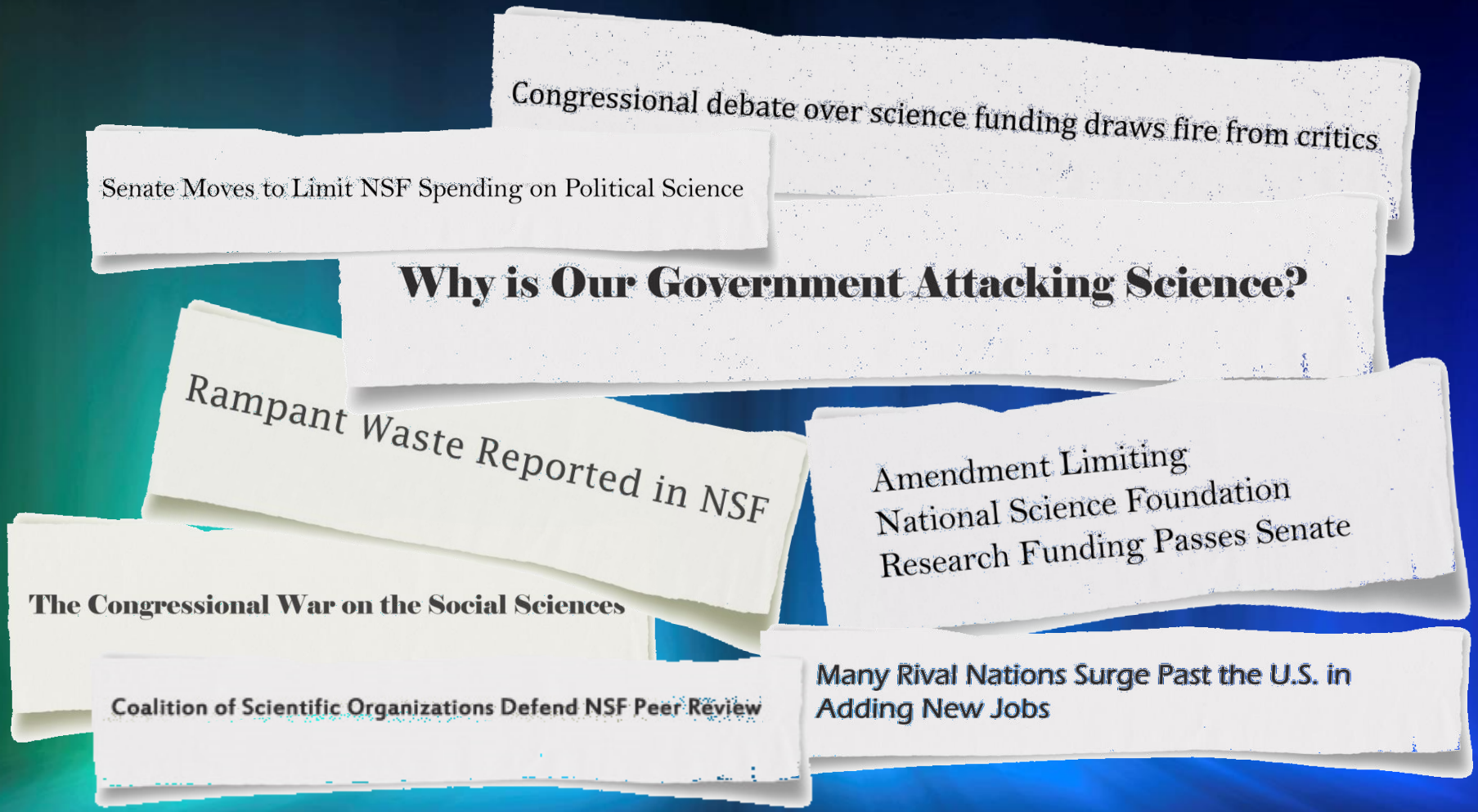
NSF is Committed to Transparency and Accountability

Projects and the expenditure of public funds must be clearly described and justified.

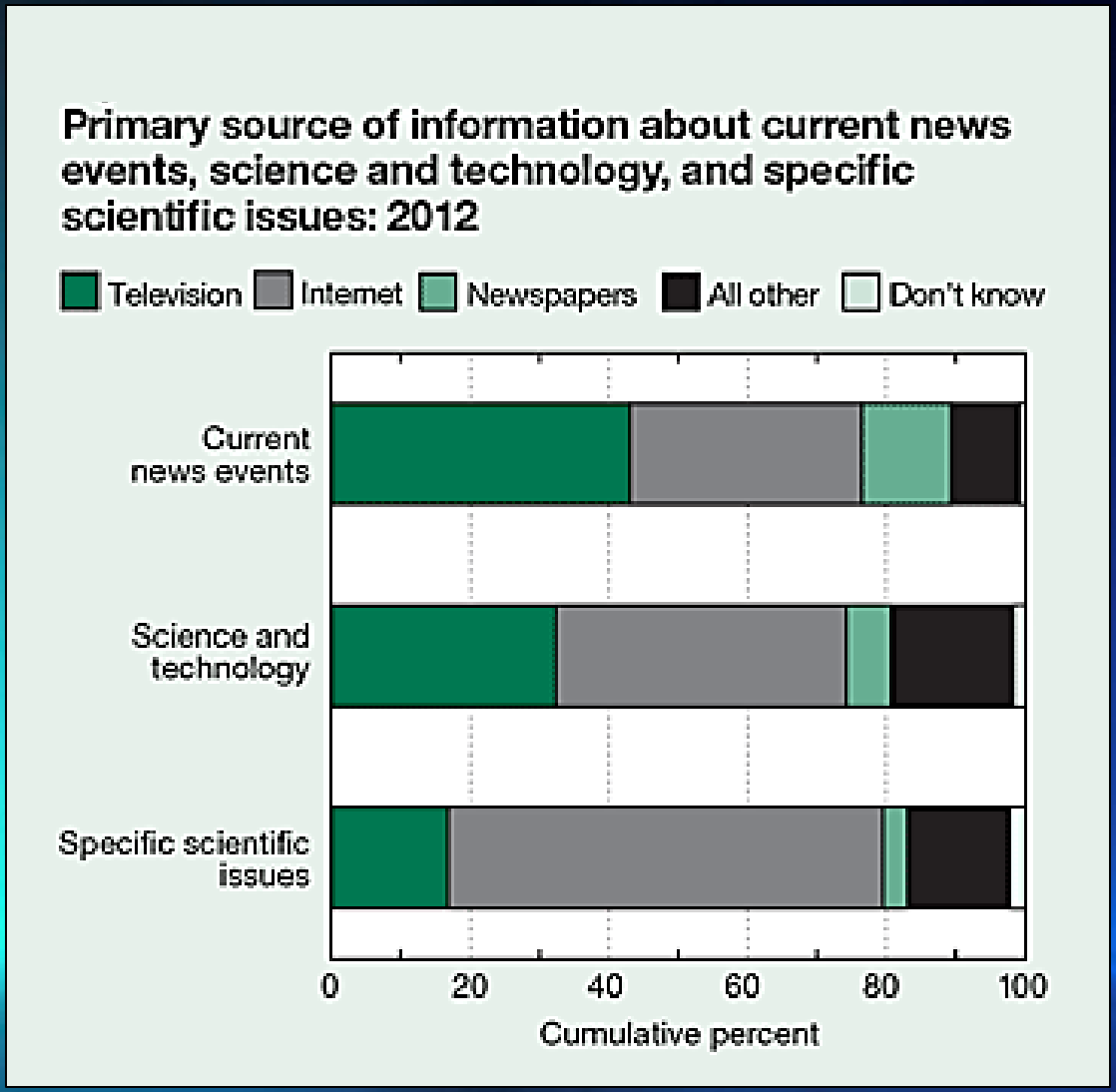
The Changing Budget Landscape



Public Scrutiny of the NSF



The Media Landscape



Source: Science & Engineering Indicators 2014

Society's Changing Needs

Natural hazards

Climate change

Energy

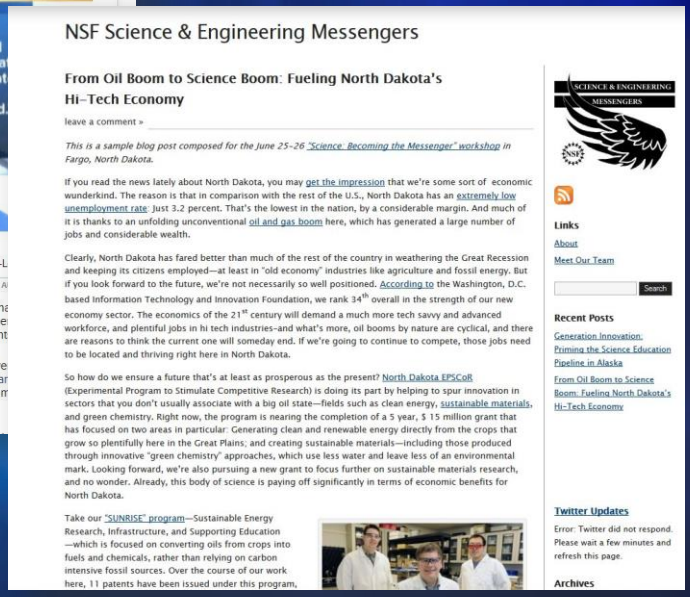
Food and drug safety

Cybersecurity

Youth violence

NSF's Communication Strategy

Create a context and narrative for the general public and for policy makers



When Should You Communicate?

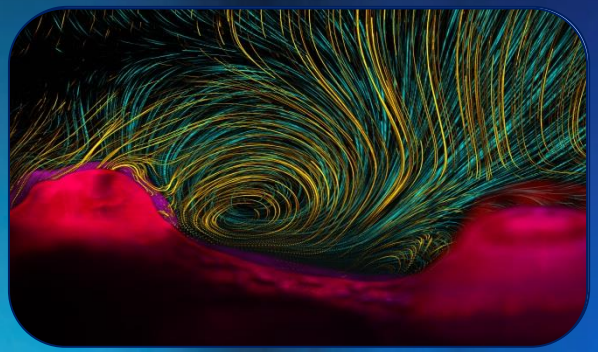
Before, **during** and **after** your work is NSF funded, work with:

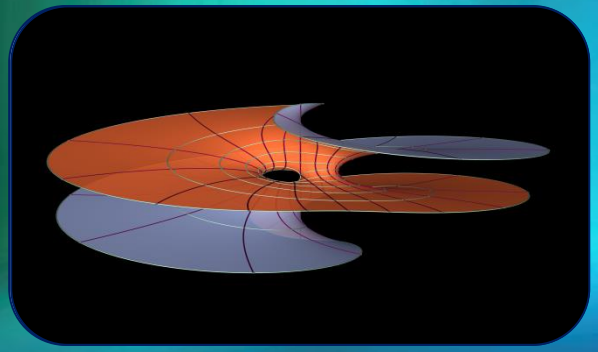
- Your NSF program officer
- Your institution's public information officer
- Broader communities
- NSF Office of Legislative and Public Affairs

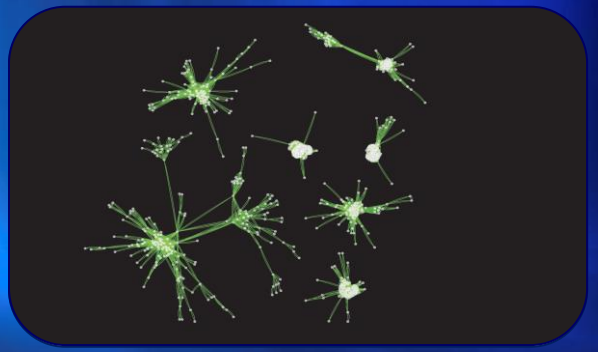
Failure to Communicate

NSF's Organization

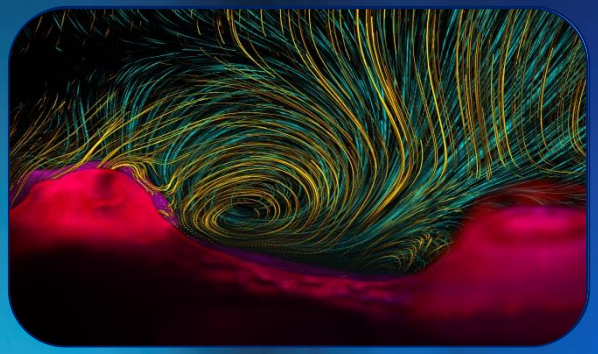
The NSF Directorates and Offices

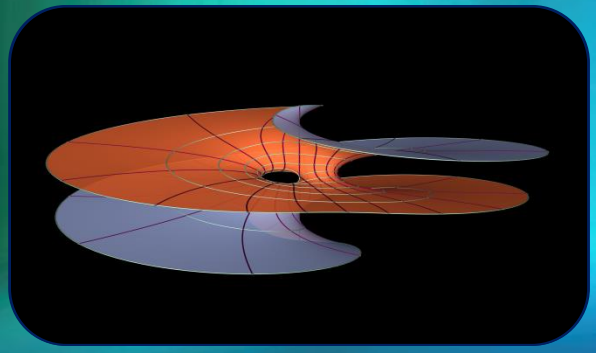


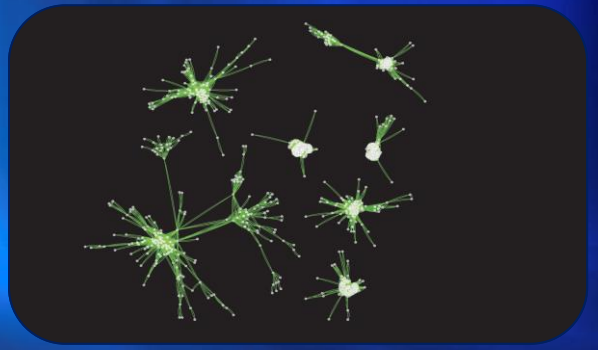




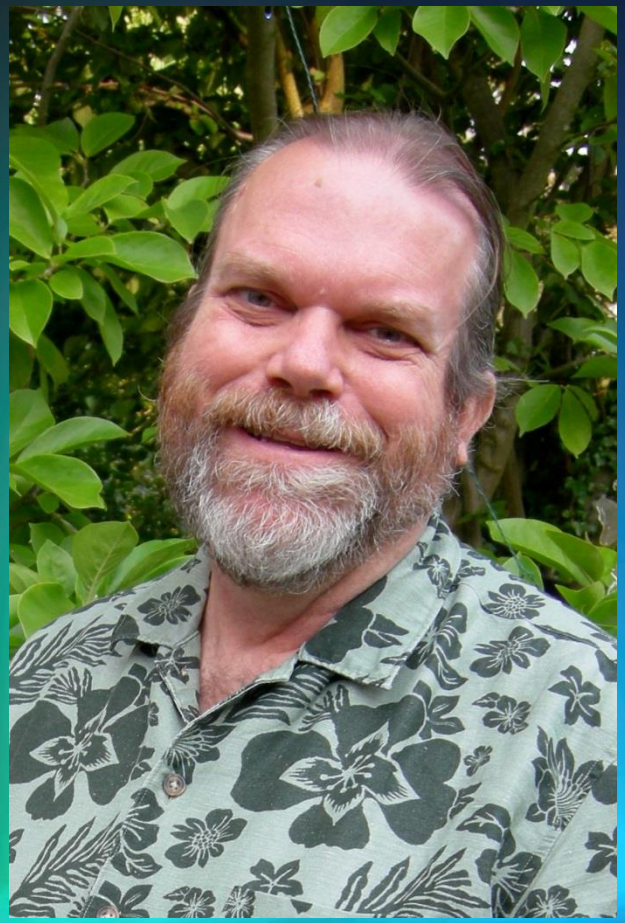
The NSF Directorates and Offices







Biological Sciences (BIO)



George Gilchrist
Division of Environmental Biology
Ggilchrist@nsf.gov

- **Permanent Program Officer in the Division of Environmental Biology/Evolutionary Processes Cluster**
- **Technical Coordinator for the BEACON (Bio/computational Evolution in Action CONsortium) Science and Technology Center at Michigan State University**
- **Program Officer on Dimensions of Biodiversity**

Biological Sciences (BIO)

James Olds, Assistant Director
Jane Silverthorne, Deputy Assistant Director

Emerging Frontiers (EF)

Division of Biological Infrastructure (DBI)

Scott Edwards, Division Director
James Deshler, Deputy Division Director

Division of Environmental Biology (DEB)

Alan Tessier, Acting Division Director
Maureen Kearney, Deputy Division Director

Division of Integrative Organismal Systems (IOS)

William Zamer, Division Director
Michelle Elekonich, Deputy Division Director

Division of Molecular and Cellular Biosciences (MCB)

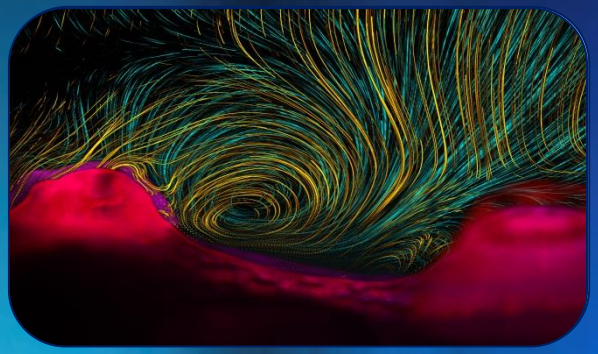
Gregory Warr, Division Director
Theresa Good, Deputy Division Director

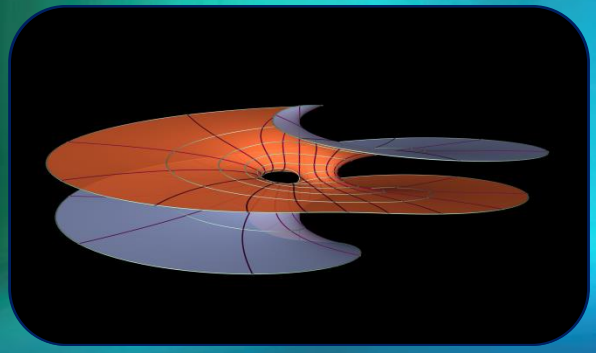
Biological Sciences (BIO)

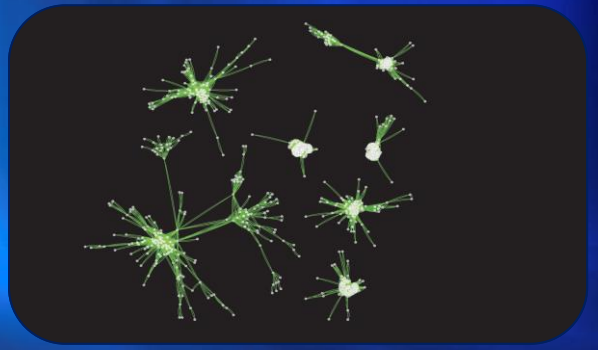
Priorities

- PI-driven projects in all areas of Biological Research
- Brain Research through Advancing Innovative Neurotechnologies (BRAIN)
- National Ecological Observatory Network (NEON)
- Dimensions of Biodiversity

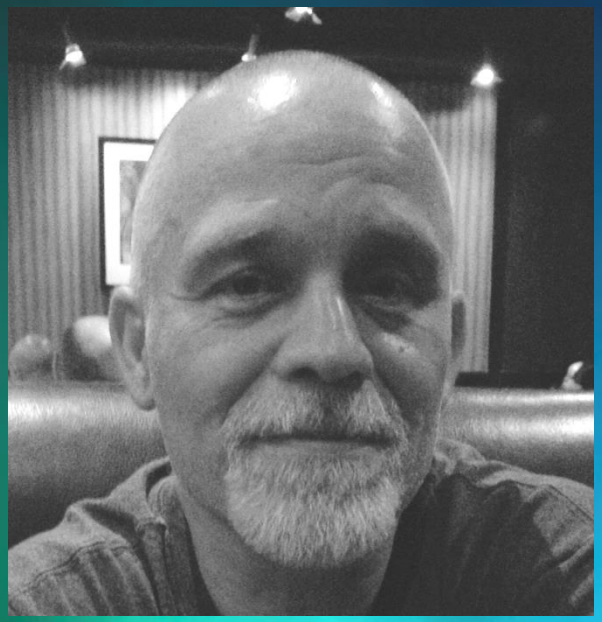
The NSF Directorates and Offices







Computer & Information Science & Engineering (CISE)



Tracy Kimbrel
Computing & Communication Foundations (CCF)
tkimbrel@nsf.gov

- **Lead program officer, Algorithms in the Field (AitF)**
  CISE cross-division program
- **Lead program officer, Algorithmic Foundations (AF)**
  CCF core program
- **Liaison and former program officer for Graduate Research Fellowship Program (GRFP)**

Computer & Information Science & Engineering (CISE)

James F. Kurose, Assistant Director
Suzanne C. Iacono, Deputy Assistant Director

Division of Advanced Cyberinfrastructure (ACI)

Irene M. Qualters, Division Director
Mark Suskin,
Deputy Division Director

Division of Information and Intelligent Systems (IIS)

Lynne Parker, Division Director
Deborah F. Lockhart,
Deputy Division Director

Division of Computing and Communication Foundations (CCF)

S, Rao Kosaraju, Division Director
James J. Donlon,
Deputy Division Director

Division of Computer and Network Systems (CNS)

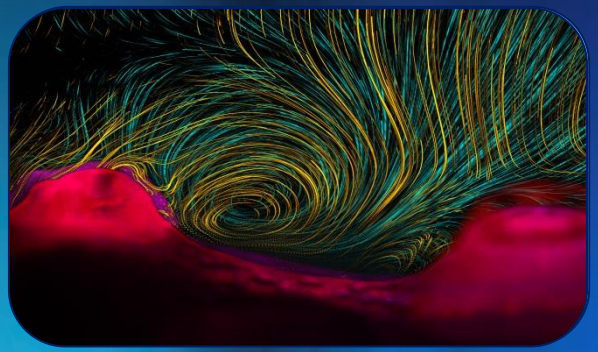
Keith Marzullo, Division Director
Erwin P. Gianchandani,
Deputy Division Director

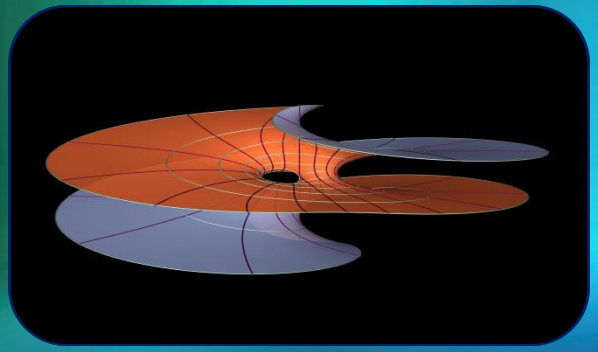
Computer & Information Science & Engineering (CISE)

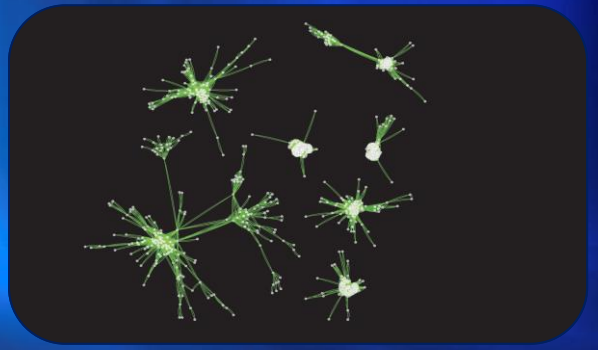
Directorate Priorities

- Core research programs across computer science
- Cross-CS and cross-NSF programs (e.g., BRAIN, SaTC, NRI)
- CS education (cyberlearning)
- Building cyber infrastructure

The NSF Directorates and Offices







Education & Human Resources (EHR)

B. Jan Middendorf
Divisions of Graduate Education &
Human Resource Development
bjmidden@nsf.gov

- **Project director of the Project and Program Evaluation (PPE) program**
- **Serves as an expert on evaluation and management of the evaluation projects within NSF divisions.**
- **Co-chair of EHR Evaluation and Monitoring Work Group**
- **Funds Promoting Research and Innovative Methodologies for Evaluation (PRIME)**

Education & Human Resources (EHR)

Dr. Joan Ferrini-Mundy
Assistant Director

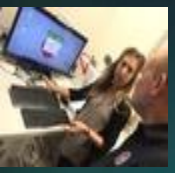
Division of Graduate Education (DGE)
Valerie Wilson
(Acting) Division Director

Division of Human Resource Development (HRD)
Jermelina Tupas
(Acting) Division Director

Division of Research on Learning in Formal and Informal Settings (DRL)
Sylvia M. James
(Acting) Division Director

Division of Undergraduate Education (DUE)
Susan R. Singer
Division Director

Education & Human Resources (EHR)




Learning and learning environments

- Cognitive and non-cognitive foundations of STEM
- Creative uses of formal and informal STEM learning

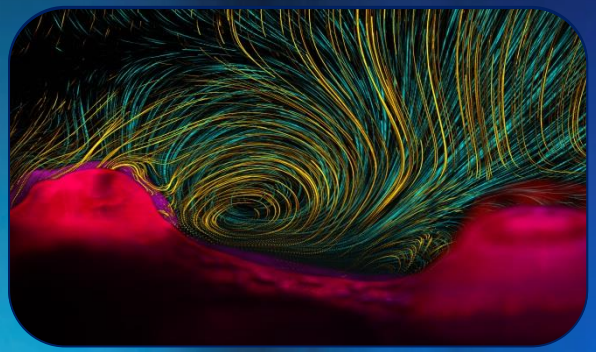
Broadening participation in STEM

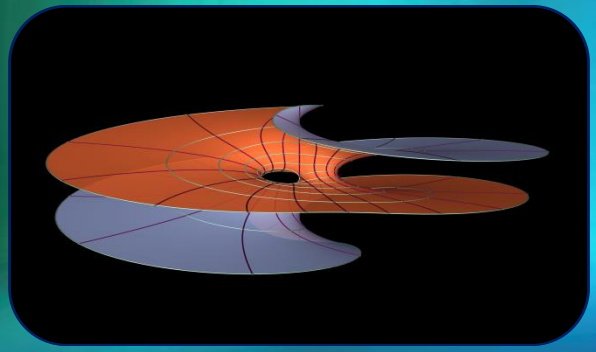
- Access to and success in high quality STEM education for underrepresented groups

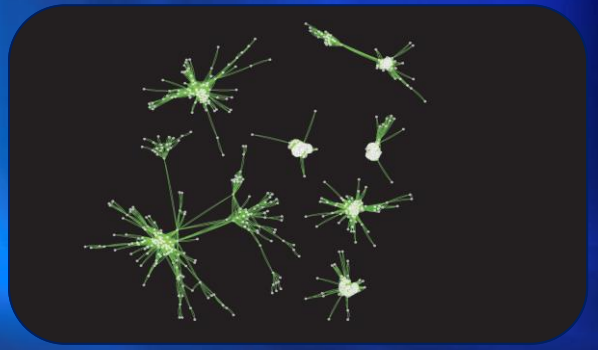
STEM professional workforce development

- Capitalize on scientific advances
- Address not yet imagined global, social & economic challenges

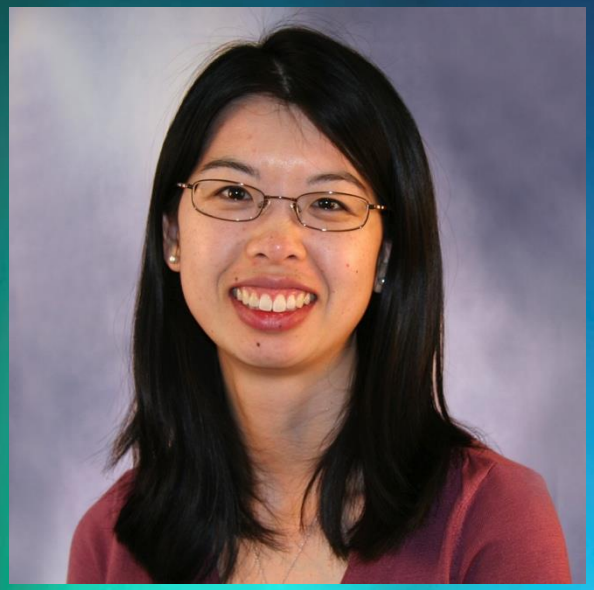
The NSF Directorates and Offices







Engineering (ENG)



Amy Chan-Hilton
Engineering Education and Centers (ENG/EEC)
achanhil@nsf.gov

- **Program director for ERCs, REU, Professional Formation of Engineers: Revolutionizing Engineering Departments and NUE programs**
- **Previously served as program director in the Division of Undergraduate Education, working in the IUSE: EHR, S-STEM, Noyce, TUES, STEP and WIDER programs**
- **Associate professor in Civil and Environmental Engineering at Florida State University**

Engineering (ENG)

Emerging Frontiers in Research and Innovation (EFRI)
Sohi Rastegar

Innovation Corps
Babu DasGupta

Pramod Khargonekar, Assistant Director
Grace Wang, Deputy Assistant Director

Senior Advisor for Nanotechnology
Mihail Roco

Program Director for Strategic Operations
Cheryl Albus

Program Director for Evaluation & Assessment
Alexandra Medina-Borja

Engineering Education and Centers (EEC)

Don Millard, Division Director (Acting)

Chemical, Bioengineering, Environmental, and Transport Systems (CBET)

JoAnn Lighty, Division Director

Civil, Mechanical, and Manufacturing Innovation (CMMI)

George Hazelrigg, Division Director

Electrical, Communications, and Cyber Systems (ECCS)

Samir El-Ghazaly, Division Director

Industrial Innovation and Partnerships (IIP)

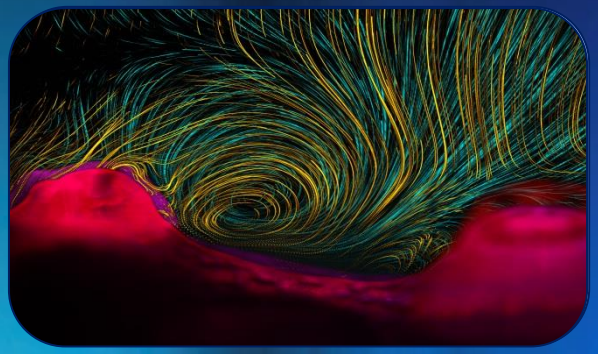
Barry Johnson, Division Director

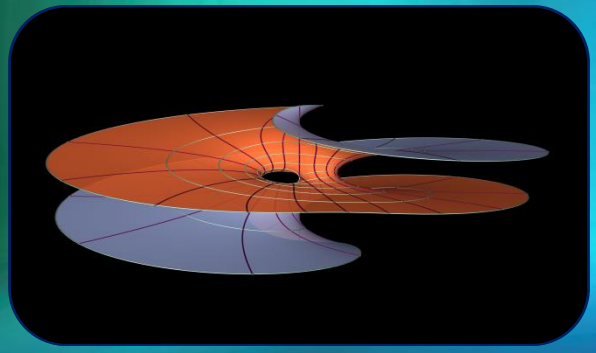
ENG Initiatives and Priorities Address National Interests

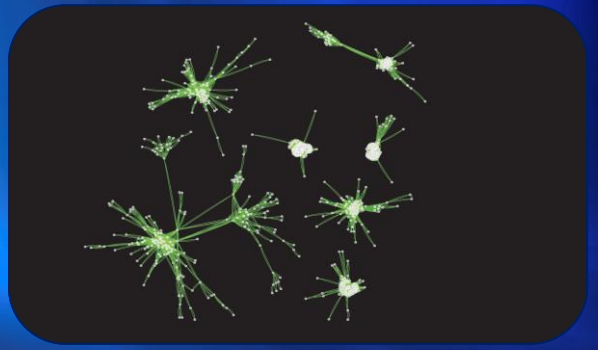
- INFEWS
- Risk and Resilience: CRISP
- Urban Science
- Clean Energy Technology*
- Cyber-Enabled Materials, Manufacturing, and Smart Systems - Advanced Manufacturing*
- Optics and Photonics
- Understanding the Brain
- Education and Broadening Participation: INCLUDES
- Innovation Corps
- Emerging Frontiers in Research and Innovation
- Integrative Research Centers
- National Nanotechnology Initiative*
- Communications and Cyberinfrastructure

* National Initiatives

The NSF Directorates and Offices







Geosciences (GEO)

Eric DeWeaver
Division of
edeweave@nsf.gov

- Manages the Climate and Large-Scale Dynamics Program (CLD)
- Formerly at UW-Madison, postdoc in Seattle
- Research interests in the dynamics of atmospheric circulation, Arctic sea ice
- Worked on polar bear listing decision for USGS

Geosciences (GEO)

Dr. Roger Wakimoto, Assistant Director
Dr. Margaret Cavanaugh, Deputy Assistant Director

Division of Atmospheric and Geospace Sciences (AGS)

Paul Shepson, Division Director

Division of Ocean Sciences (OCE)

Rick Murray, Division Director

Division of Polar Programs (PLR)

Kelly Falkner, Division Director

Division of Earth Sciences (EAR)

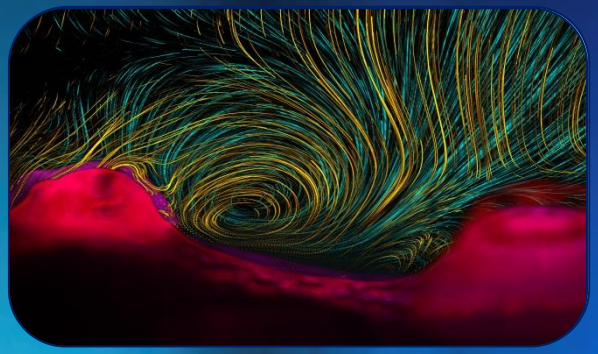
Carol Frost, Division Director

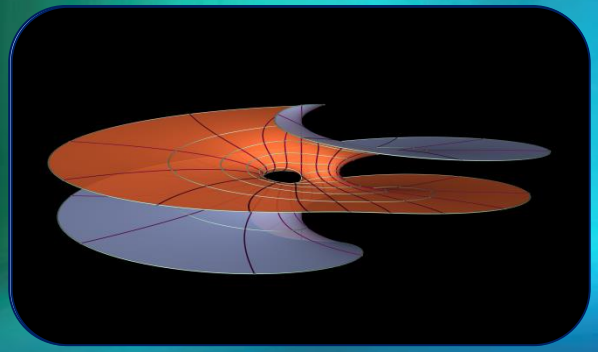
Geosciences (GEO)

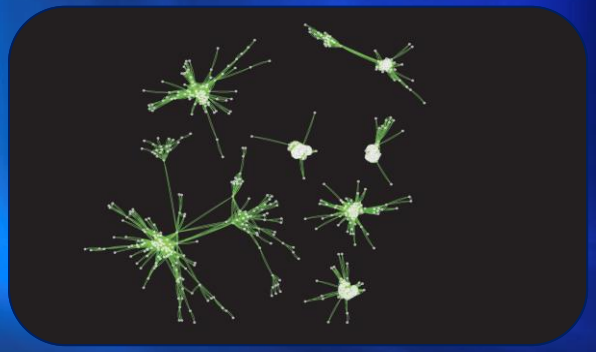
Directorate Priorities

- Support basic research in atmosphere, earth, and ocean sciences
- Support research facilities and infrastructure (NCAR, research vessels, OOI, Antarctic base)
- Develop community-driven cyber-infrastructure
- Promote education and diversity in the geosciences
- Initiatives in hazards and resilience (PREevents, INFEWS)

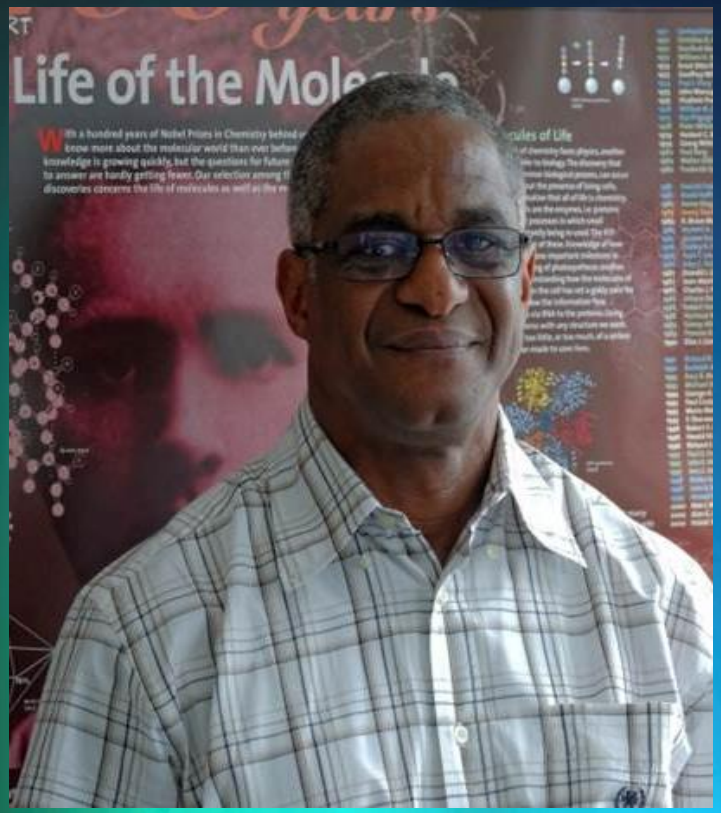
The NSF Directorates and Offices







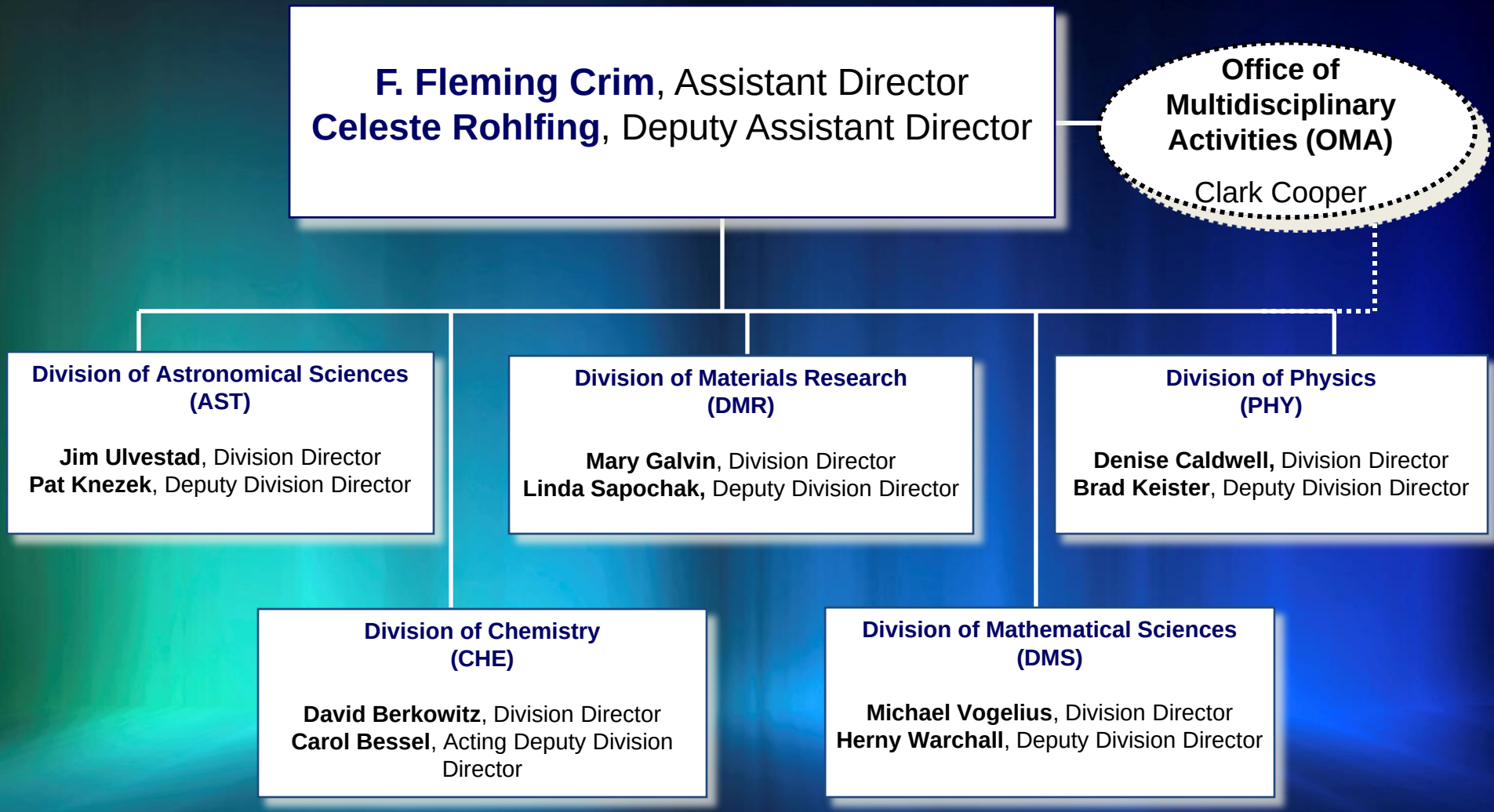
Mathematical & Physical Sciences (MPS)



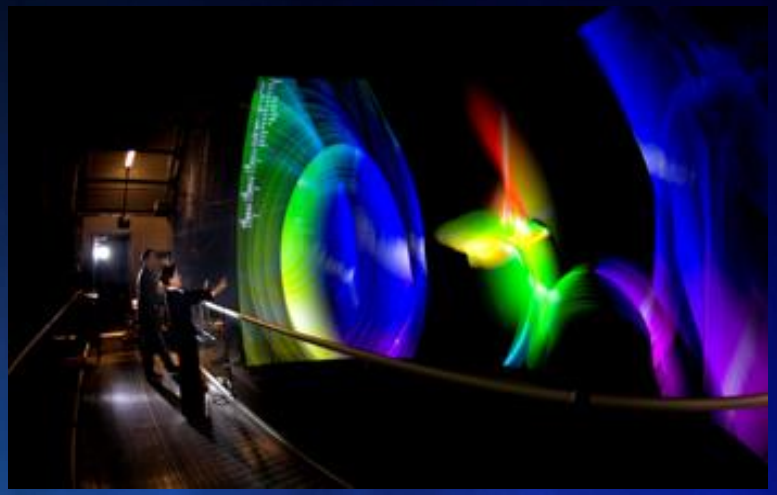
David Rockcliffe
Division of Chemistry
drockclif@nsf.gov

- **Lead Program Director for the Chemistry of Life Processes Program**
- **Six years in the Division of Molecular and Cellular Biosciences before joining the Division of Chemistry**
- **Previously managed the Structural Biochemistry and Mechanistic Biochemistry programs**

Mathematical & Physical Sciences (MPS)



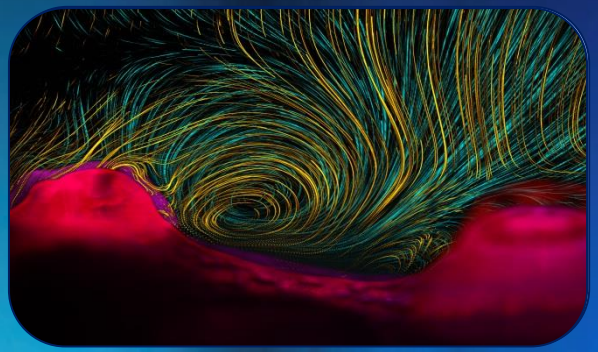
Mathematical & Physical Sciences (MPS)

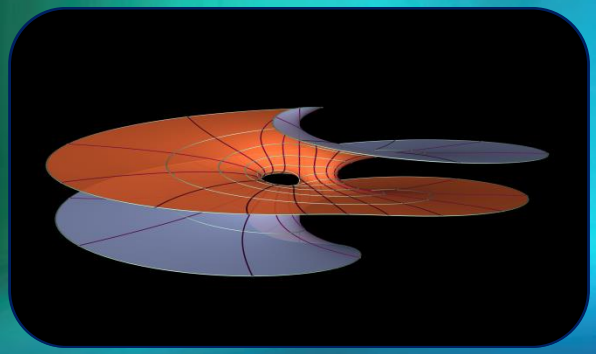


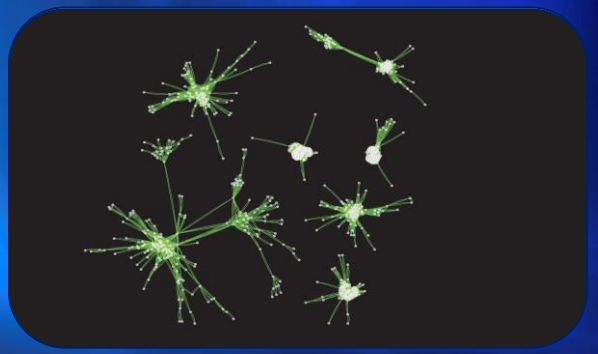
Emphasis Areas

- Physical sciences at the nanoscale
- Advances in optics and photonics
- Materials by design
- Physics of the universe
- Quantum information science
- Complex systems (multi-scale, emergent phenomena)
- Innovations at the Nexus of Food, Energy and Water Systems (INFEWS)
- Sustainability (energy, environment, climate)
- Interface between the mathematical physical and life sciences
- Computational and data-enabled science and engineering (CDS&E)

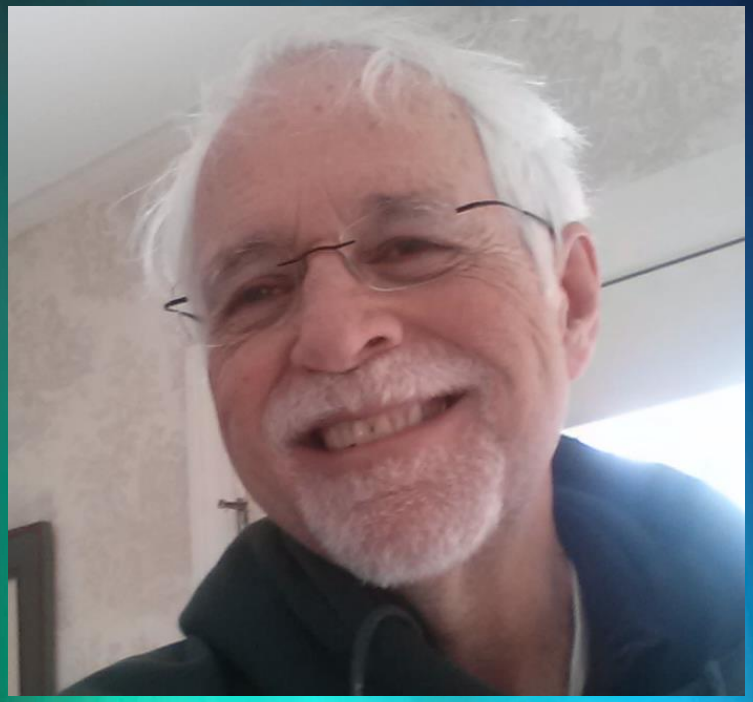
The NSF Directorates and Offices







Social, Behavioral, & Economic Sciences (SBE)



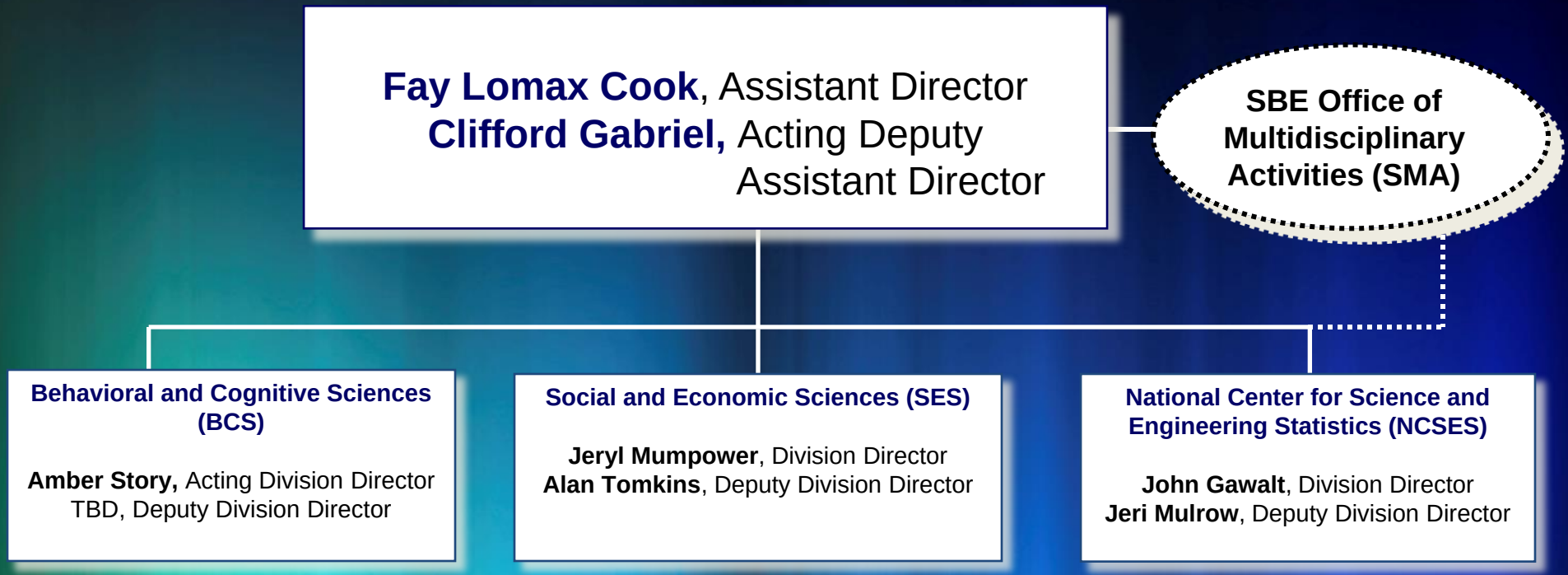
Robert O'Connor
Risk and Management Sciences Program
boconnor@nsf.gov

Management team member for inter-directorate competitions
- Critical Resilient Infrastructure Systems and Processes
- Hazards

NSF's Representative to the National Climate Assessment Committee

Professor Emeritus of Political Science, Pennsylvania State University

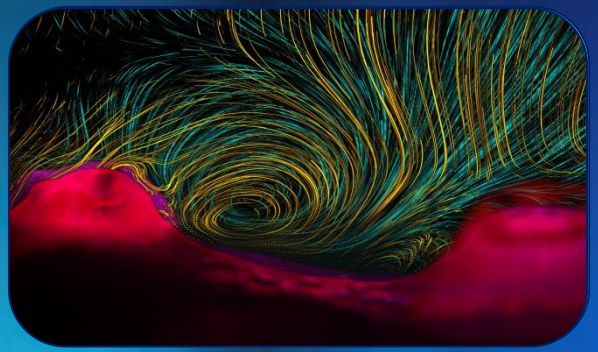
Social, Behavioral & Economic Sciences

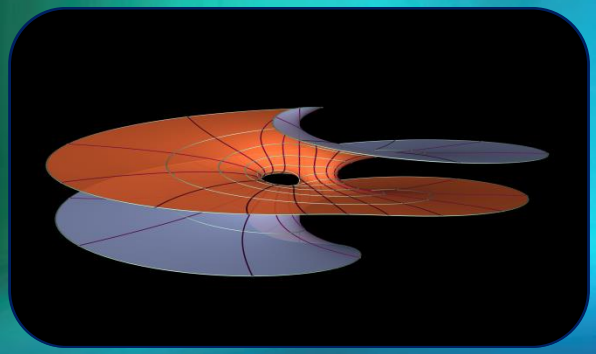


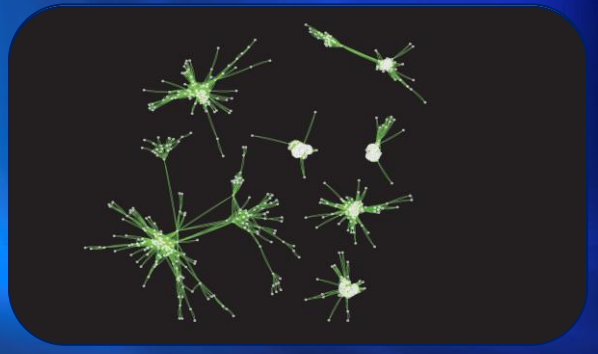
SBE STANDING PROGRAMS

Methodology, Measurement & Statistics
Decision, Risk, & Management Sciences
Developmental & Learning Sciences
Science, Technology and Society
Archaeology and Archaeometry
Perception, Action, & Cognition
Geography & Regional Science
Science of Organizations
Biological Anthropology
Cognitive Neuroscience
Law and Social Science
Cultural Anthropology
Economics (Big Dog)
Social Psychology
Political Science
Linguistics
Sociology

The NSF Directorates and Offices





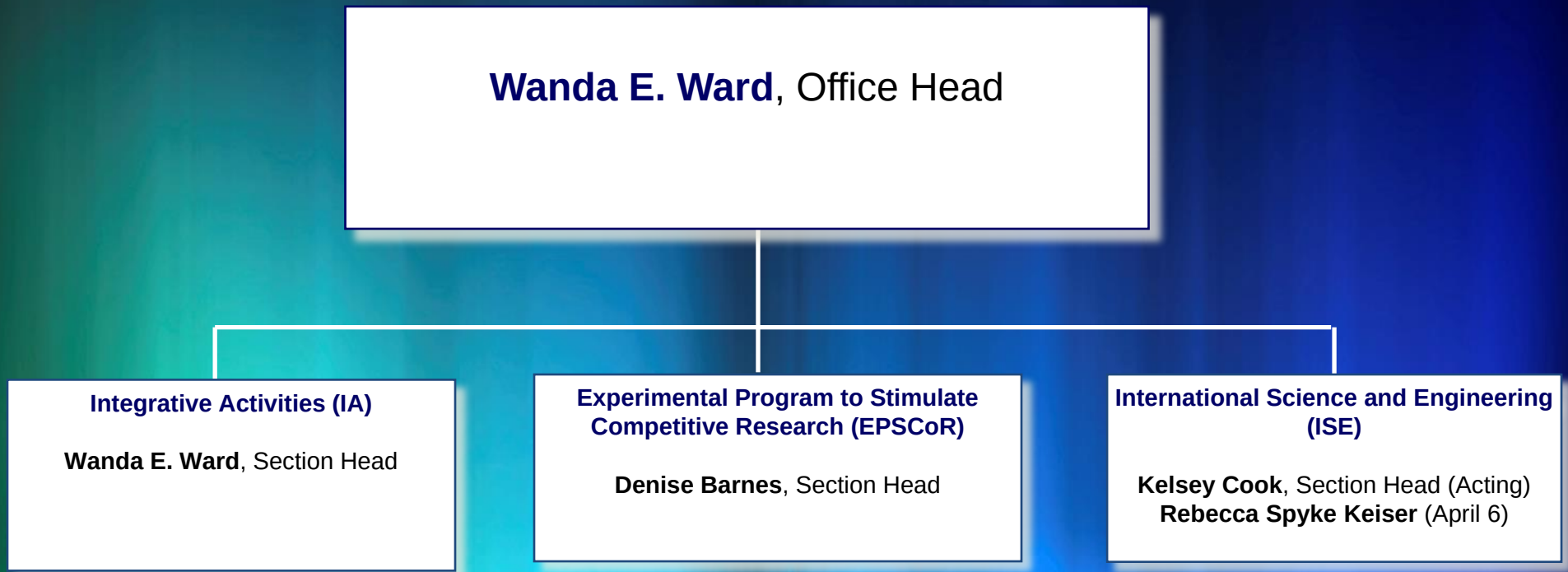


Office of International and Integrative Activities (OD/OIIA)

Randy L. Phelps
Integrative Activities
rphelps@nsf.gov

- **Co-coordinaties two NSF-wide programs: MRI and STC.**
- **Recent co-chair and still active member, INSPIRE Working Group**
- **Former program director in NSF's Astronomy Division**
- **Former full professor in the Department of Astronomy and Physics at California State University, Sacramento.**

Office of International and Integrative Activities (OD/OIIA)



Integrative Activities (IA) and EPSCoR

Priorities

- IA: Leads and coordinates strategic programs and opportunities across disciplinary and geographic boundaries
  - Science and Technology Centers (STC)
  - Major Research Instrumentation (MRI)
  - Integrated NSF Support Promoting Inter-disciplinary Research and Education (INSPIRE)

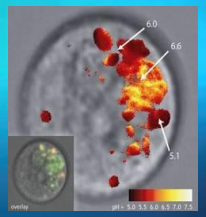
- EPSCoR: Strengthens and Avoids Undue Concentration of STEM R&D throughout the U.S. Infrastructure Improvement (RII):
  - RII Track-1: Statewide projects to build research competitiveness
  - RII Track-2 Focused EPSCoR Collaborations: inter-state collaborations on topics of regional and national importance
  - RII Track-3 Building Diverse Communities: pilot to develop effective approaches to broadening participation in STEM.

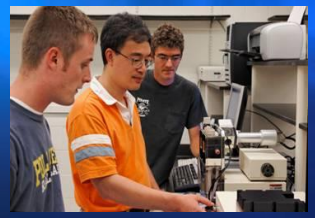
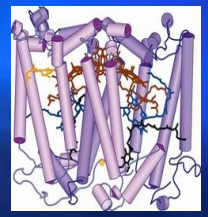
International Science and Engineering (ISE)

Priorities

- **Advance** the FRONTIERS of S&E via international collaboration
- **Prepare** a GLOBALLY-ENGAGED U.S. S&E workforce
- **Develop** GLOBAL KNOWLEDGE NETWORKS that link U.S. faculty and students to the world
- **Leverage** RESOURCES, EXPERTISE, FACILITIES around the globe
  Partnership for International Research and Education (PIRE)





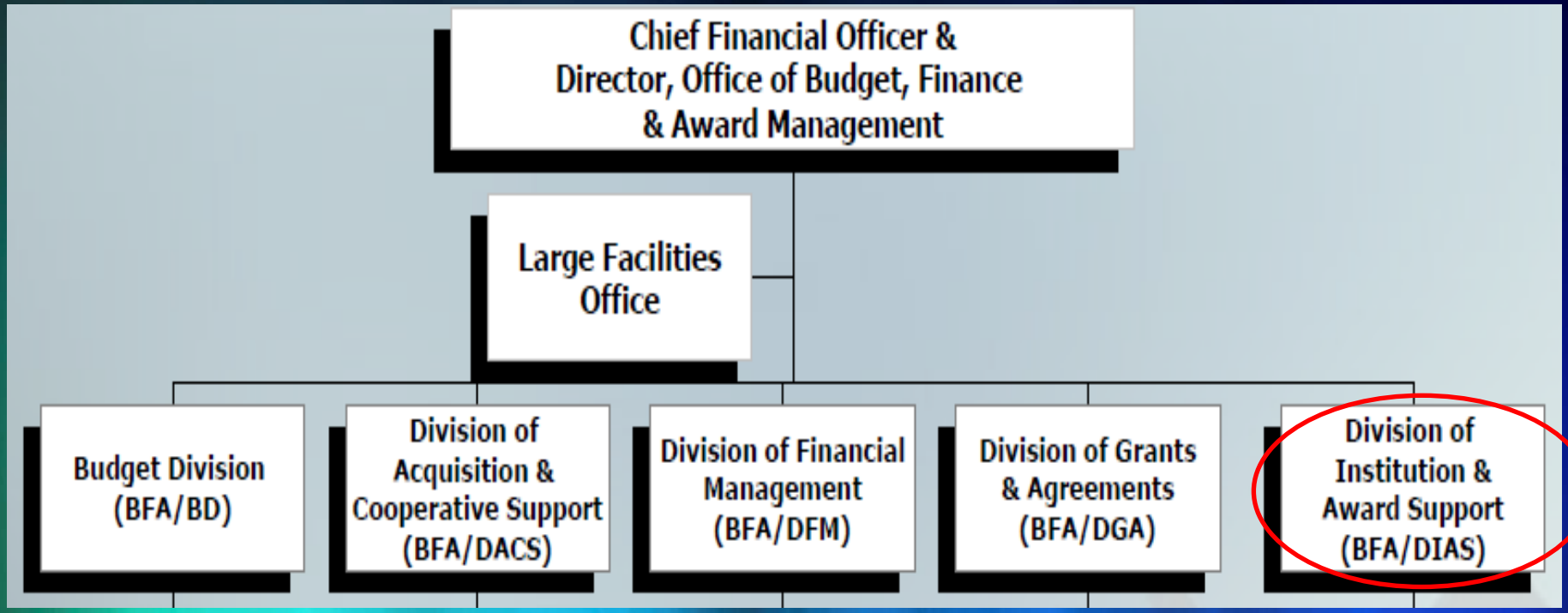




Budget, Finance & Award Management (BFA)

Jeremy Leffler
Policy Office, Division of Institution & Award Support
jleffler@nsf.gov

- **Serves as outreach specialist for proposal & award policy**
- **Communicates policies and procedures to the research community and NSF staff**
- **Organizes bi-annual NSF Grants Conference**
- **Plans S & E research and education programs for institutions that are historically underserved in the federal arena.**

Budget, Finance & Award Management (BFA)



Recruiting Rotators

Nancy Roddy
Division of Human Resource Management
nroddy@nsf.gov

- **Advisor for special programs in a variety of business operations and human resources areas**
- **Focus on recruitment and outreach including social media**
- **See me to learn more about working at NSF!**

Recruiting Objectives for NSF

- **Build an increasingly diverse, engaged and high-performing workforce**
- **Effectively manage human capital**
- **Recruit rotators - come to my breakout session!**

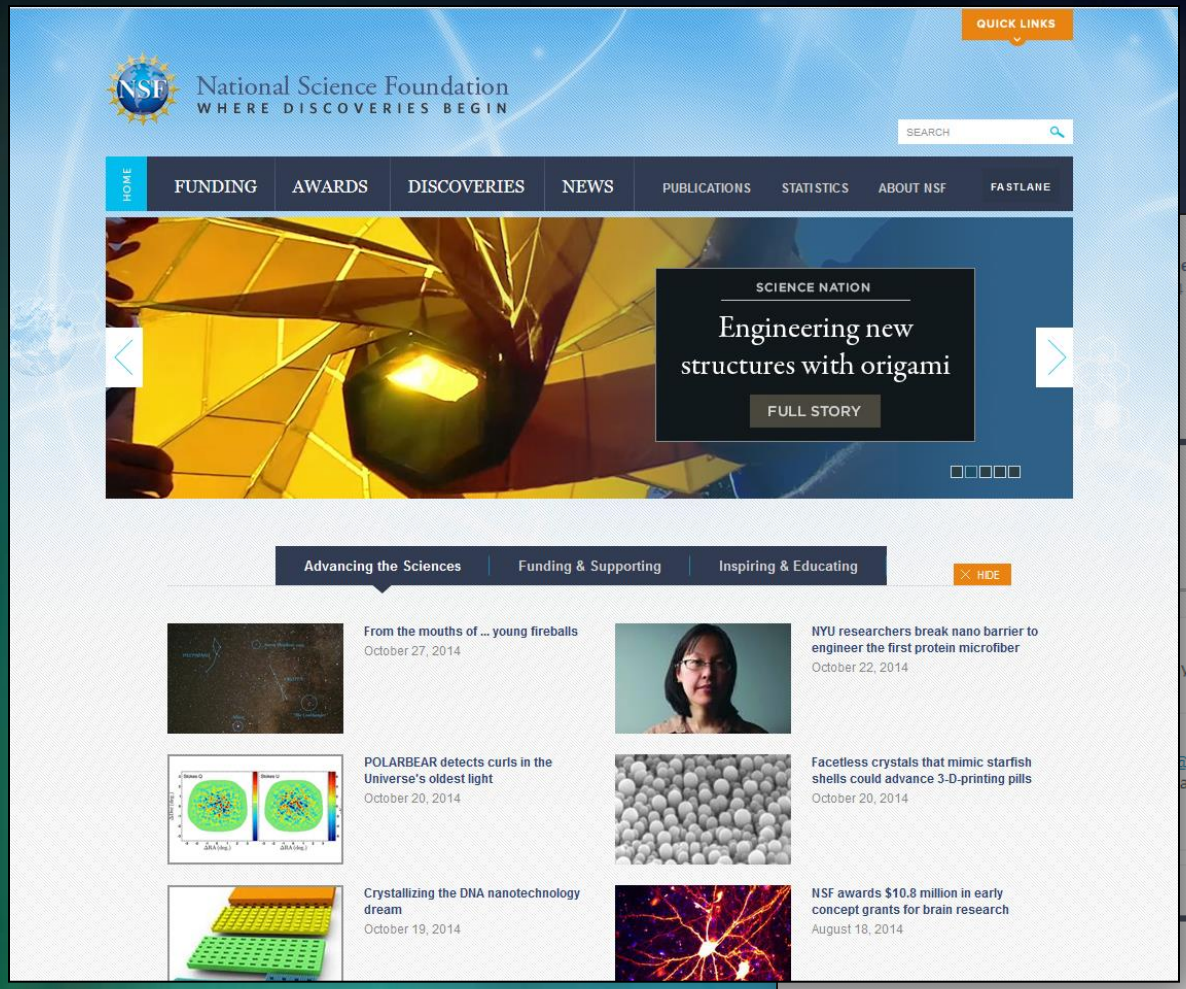
www.nsf.gov/careers/rotator/

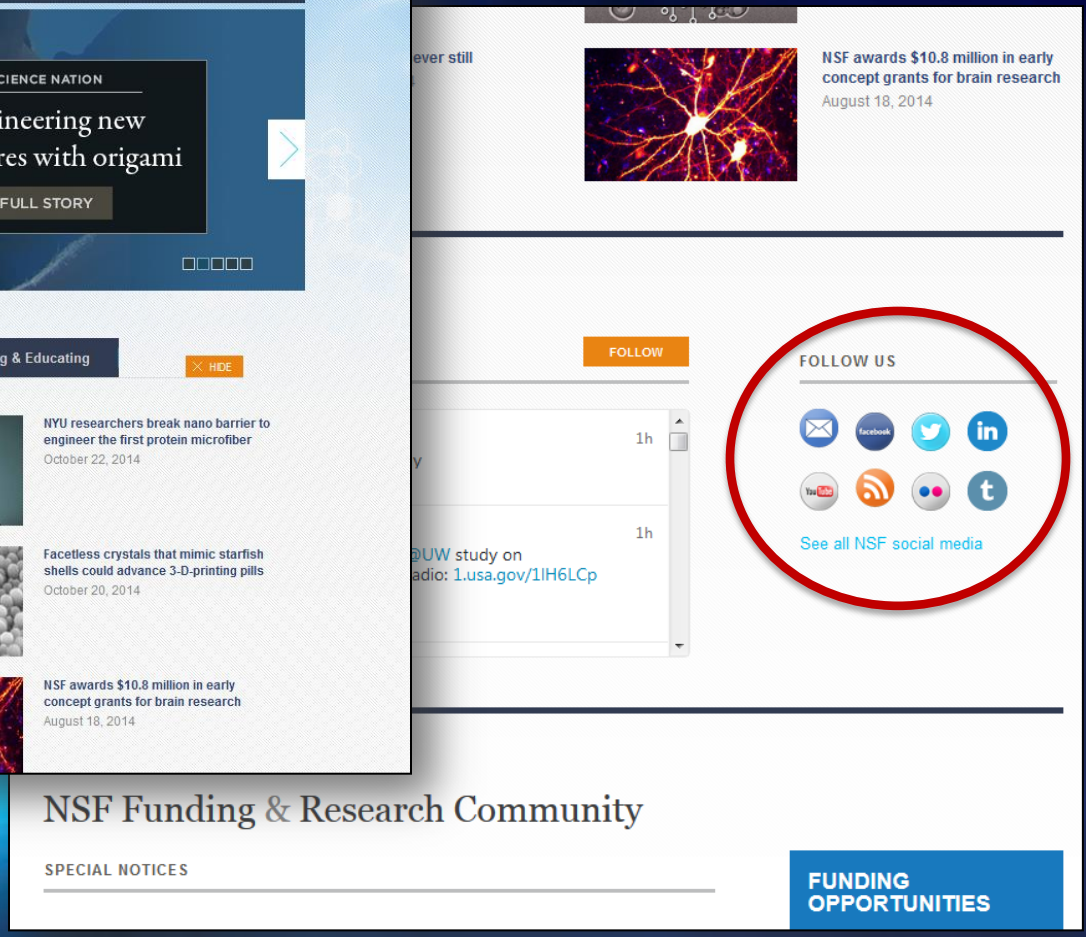
Questions?

Break

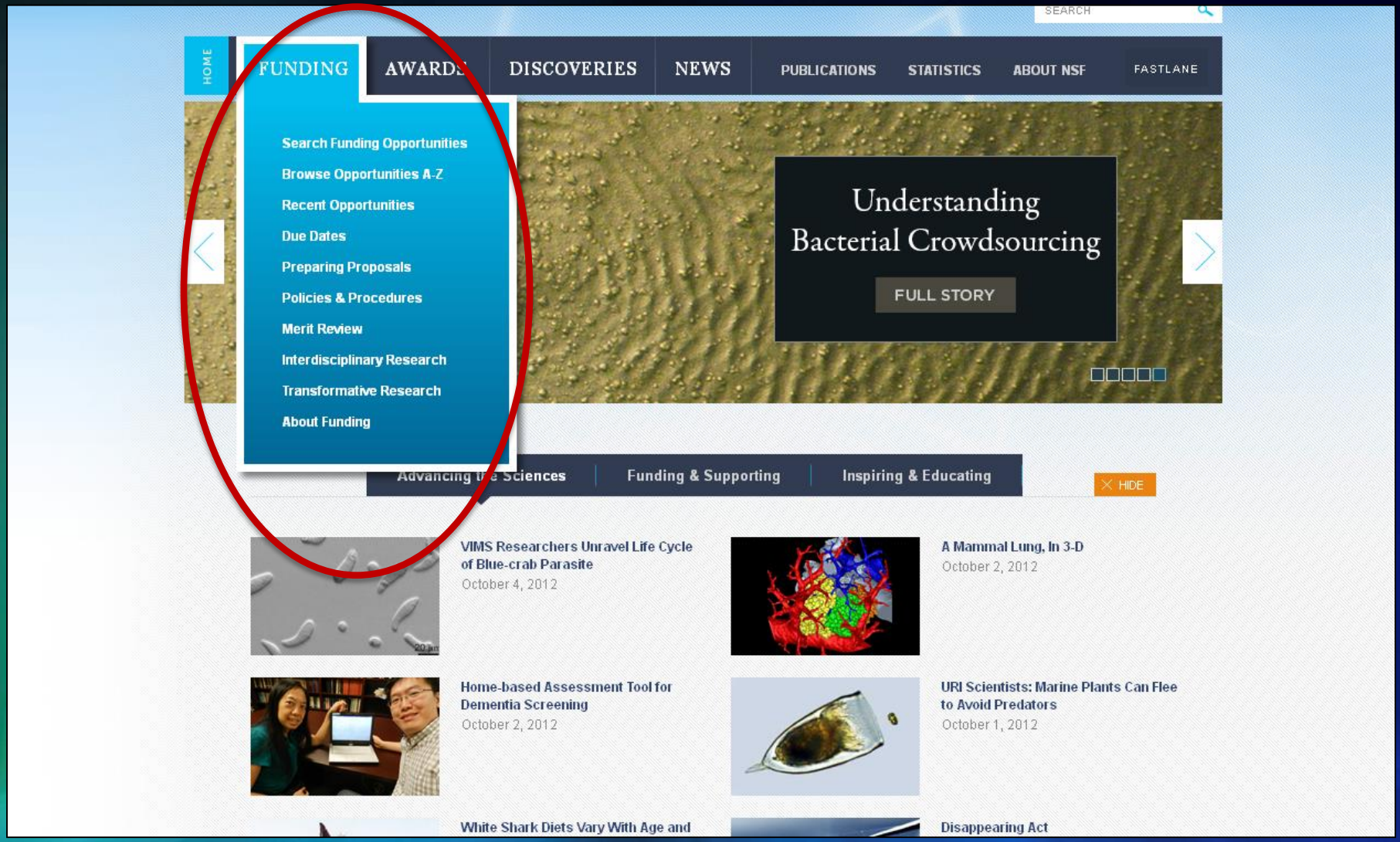
Getting Started: The Essentials

www.NSF.gov

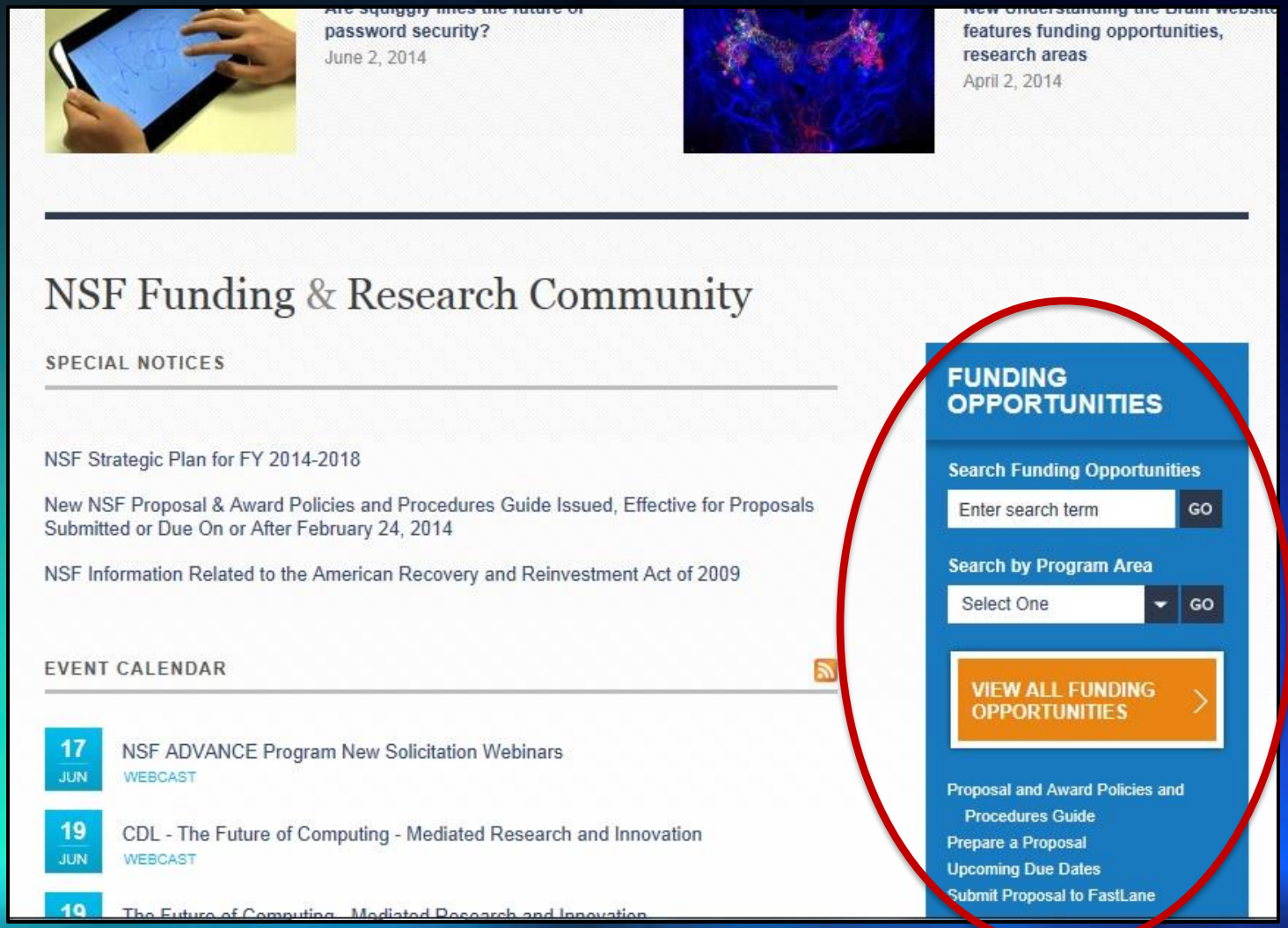

QUICK LINKS
National Science Foundation
WHERE DISCOVERIES BEGIN
SEARCH
HOME
FUNDING
AWARDS
DISCOVERIES
NEWS
PUBLICATIONS
STATISTICS
ABOUT NSF
FASTLANE
SCIENCE NATION
Engineering new structures with origami
FULL STORY
Advancing the Sciences
Funding & Supporting
Inspiring & Educating
HIDE
From the mouths of ... young fireballs
October 27, 2014
NYU researchers break nano barrier to engineer the first protein microfiber
October 22, 2014
POLARBEAR detects curls in the Universe's oldest light
October 20, 2014
Facetless crystals that mimic starfish shells could advance 3-D-printing pills
October 20, 2014
Crystallizing the DNA nanotechnology dream
October 19, 2014
NSF awards $10.8 million in early concept grants for brain research
August 18, 2014


ever still
NSF awards $10.8 million in early concept grants for brain research
August 18, 2014
FOLLOW
1h
1h
@UW study on
adio: 1.usa.gov/1lH6LCp
FOLLOW US
See all NSF social media
NSF Funding & Research Community
SPECIAL NOTICES
FUNDING OPPORTUNITIES

Navigating www.NSF.gov



Navigating www.NSF.gov



Navigating www.NSF.gov

National Science Foundation

QUICK LINKS

Research Areas

- Biological Sciences
- Computer & Information Science & Engineering
- Cyberinfrastructure
- Education and Human Resources
- Engineering
- Environmental Research & Education
- Geosciences
- Integrative Activities
- International Science & Engineering
- Mathematical & Physical Sciences
- Polar Programs
- Social, Behavioral & Economic Sciences

Funding & Awards

FUNDING INFO

- Search Funding Opportunities
- Browse Funding Opportunities A-Z
- Recent Funding Opportunities
- How to Prepare a Funding Proposal
- Grant Proposal Guide
- Submit a Proposal to FastLane

AWARD INFO

- Managing Awards
- Award & Administration Guide
- Search Awards
- Award Statistics (Budget Internet Info System)

Contact Us

- Staff Directory
- Organization List
- Visit NSF
- Work at NSF
- Do Business with NSF
- Press
- Inspector General Hotline
- How Do I ...?

The National Science Foundation
4201 Wilson Boulevard, Arlington,
Virginia 22230, USA

Tel: (703) 292-5111
FIRS: (800) 877-8339
TDD: (800) 281-8749

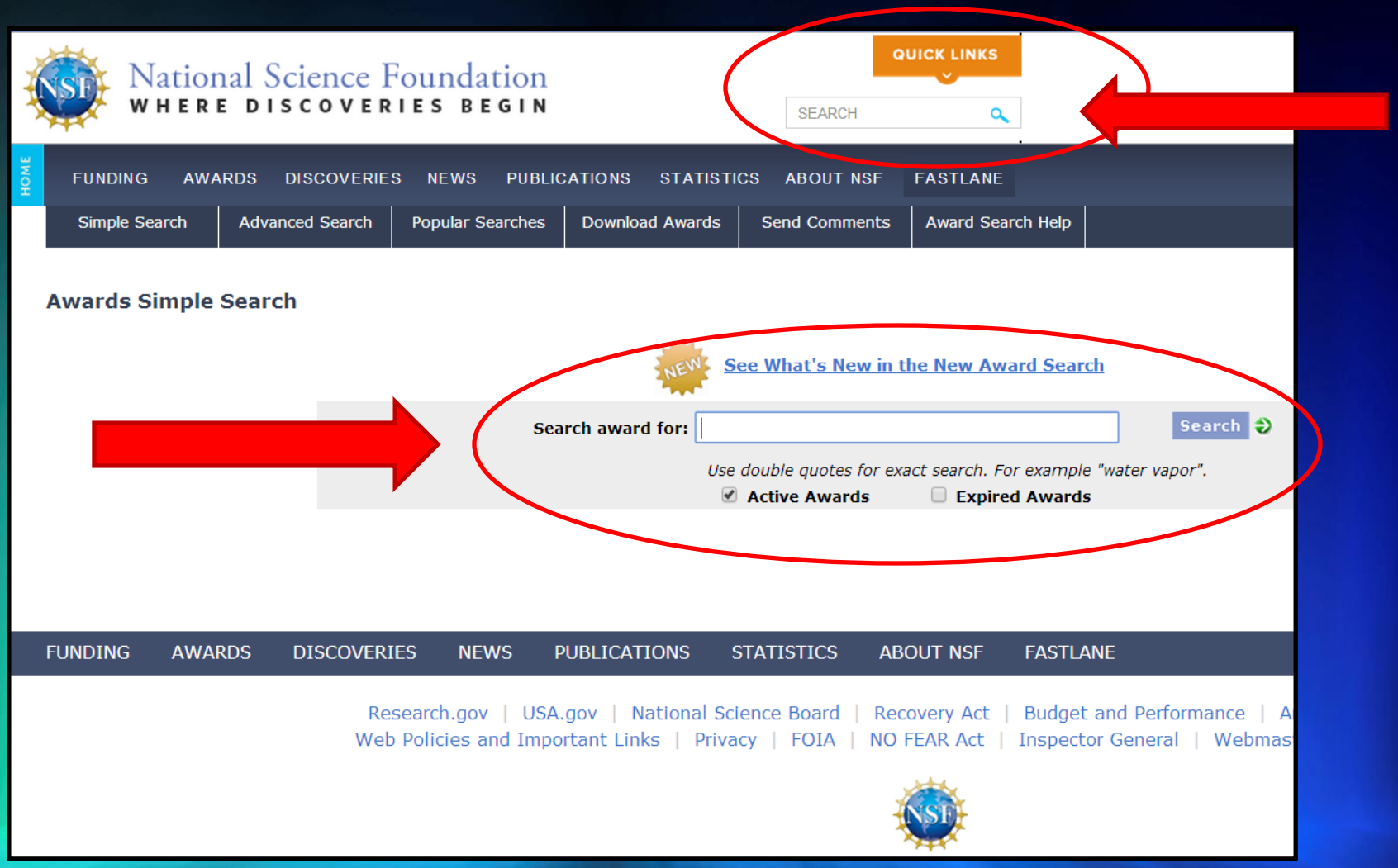
Learning Resources

- Film, TV, Exhibits & More!
- Slideshows & Photo Galleries
- Classroom Resources
- Funding for Research on Learning in Formal & Informal Settings

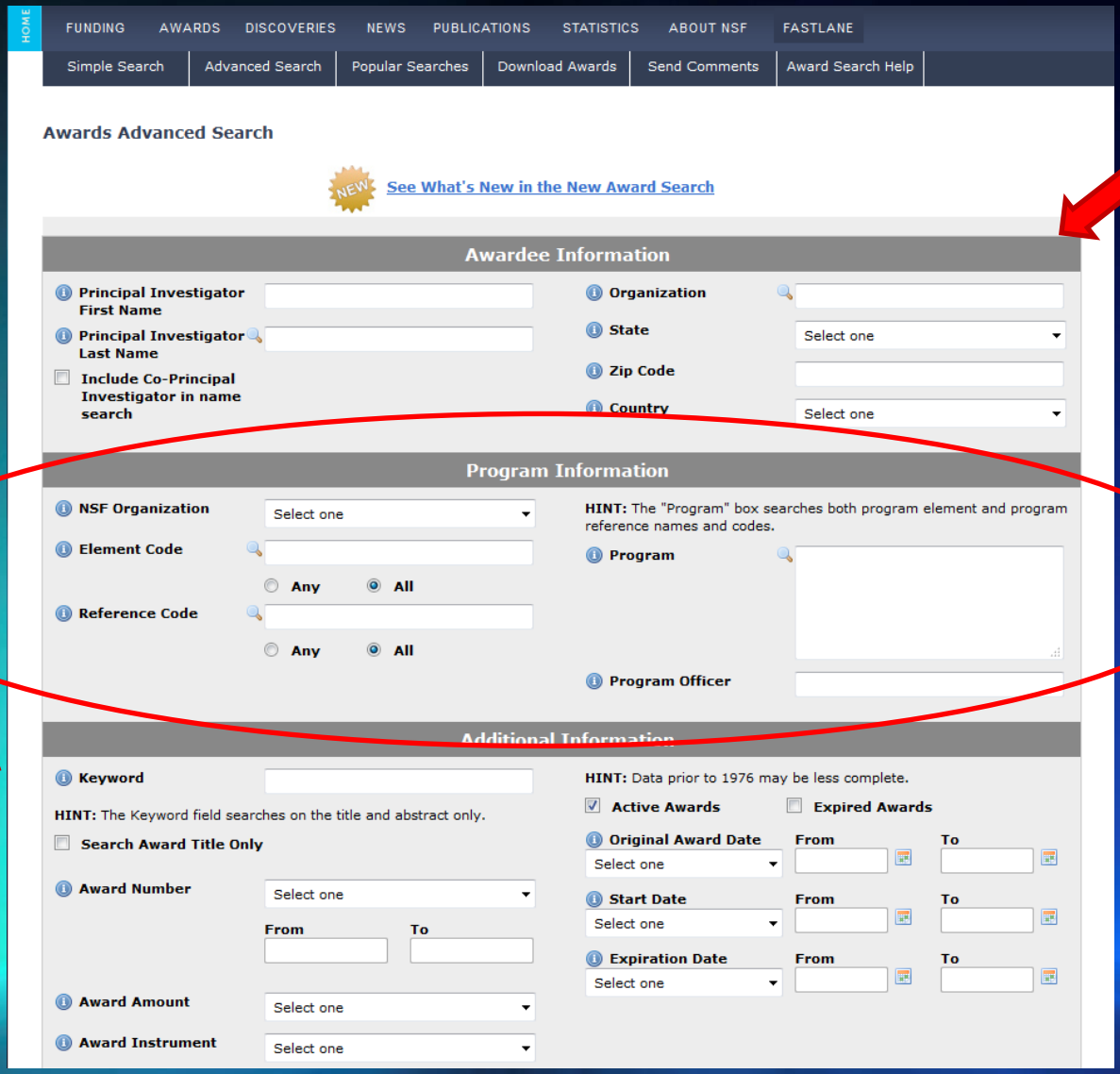
News & Discoveries

- Recent News
- Recent Discoveries
- Multimedia Gallery
- Special Reports

Navigating www.NSF.gov



Navigating www.NSF.gov



Navigating a Program Website on www.NSF.gov

Program officer list

Deadlines and announcements

Program description

Relevant links

Past funding

Drilling Down

Directorate for Computer & Information Science & Engineering

Secure and Trustworthy Cyberspace (SaTC)

CONTACTS

Name	Email	Phone	Room
Jeremy Epstein	jepstein@nsf.gov	(703) 292-8338	1175
Nina Amla	namla@nsf.gov	(703) 292-8910	1115
Christopher Clifton	cclifton@nsf.gov	(703) 292-8930	
Sol Greenspan	sgreensp@nsf.gov	(703) 292-8910	1115
Wenjing Lou	wlou@nsf.gov	(703) 292-8950	1175
Anita Nikolich	anikolic@nsf.gov	(703) 292-8970	
Deborah Shands	dshands@nsf.gov	(703) 292-4505	1175
Ralph Wachter	rwachter@nsf.gov	(703) 292-8950	1175
Victor P. Piotrowski	vpiotrow@nsf.gov	(703) 292-5141	865
Andrew D. Pollington	adpollin@nsf.gov	(703) 292-4878	1025
Zhi (Gerry) Tian	ztian@nsf.gov	(703) 292-2210	525
Heng Xu	hxu@nsf.gov	(703) 292-8643	995 N

SaTC Questions: satc@nsf.gov

PROGRAM GUIDELINES

Solicitation 14-599

List of program officers and contact info (ask if email or phone is better)

Do NOT send to each person!

Generic address

Link to current solicitation(s)

Drilling Down

Important Information for Proposers

A revised version of the *NSF Proposal & Award Policies & Procedures Guide* (PAPPG) (NSF 15-1), is effective for proposals submitted, or due, on or after December 26, 2014. The PAPPG is consistent with, and, implements the new Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance) (2 CFR § 200). NSF anticipates release of the PAPPG in the Fall of 2014. Please be advised that, depending on the specified due date, the guidelines contained in NSF 15-1 may apply to proposals submitted in response to this funding opportunity.

DUE DATES

Full Proposal Window: December 4, 2014 - December 19, 2014
CYBERSECURITY EDUCATION Projects
December 4 - December 19, Annually Thereafter

Full Proposal Window: January 2, 2015 - January 14, 2015
SMALL Projects
January 2 - January 14, Annually Thereafter

Full Proposal Window: September 2, 2015 - September 21, 2015
MEDIUM Projects
September 2 - September 19, Annually Thereafter

Full Proposal Window: November 4, 2015 - November 19, 2015
LARGE Projects
November 4 - November 19, Annually Thereafter

SYNOPSIS

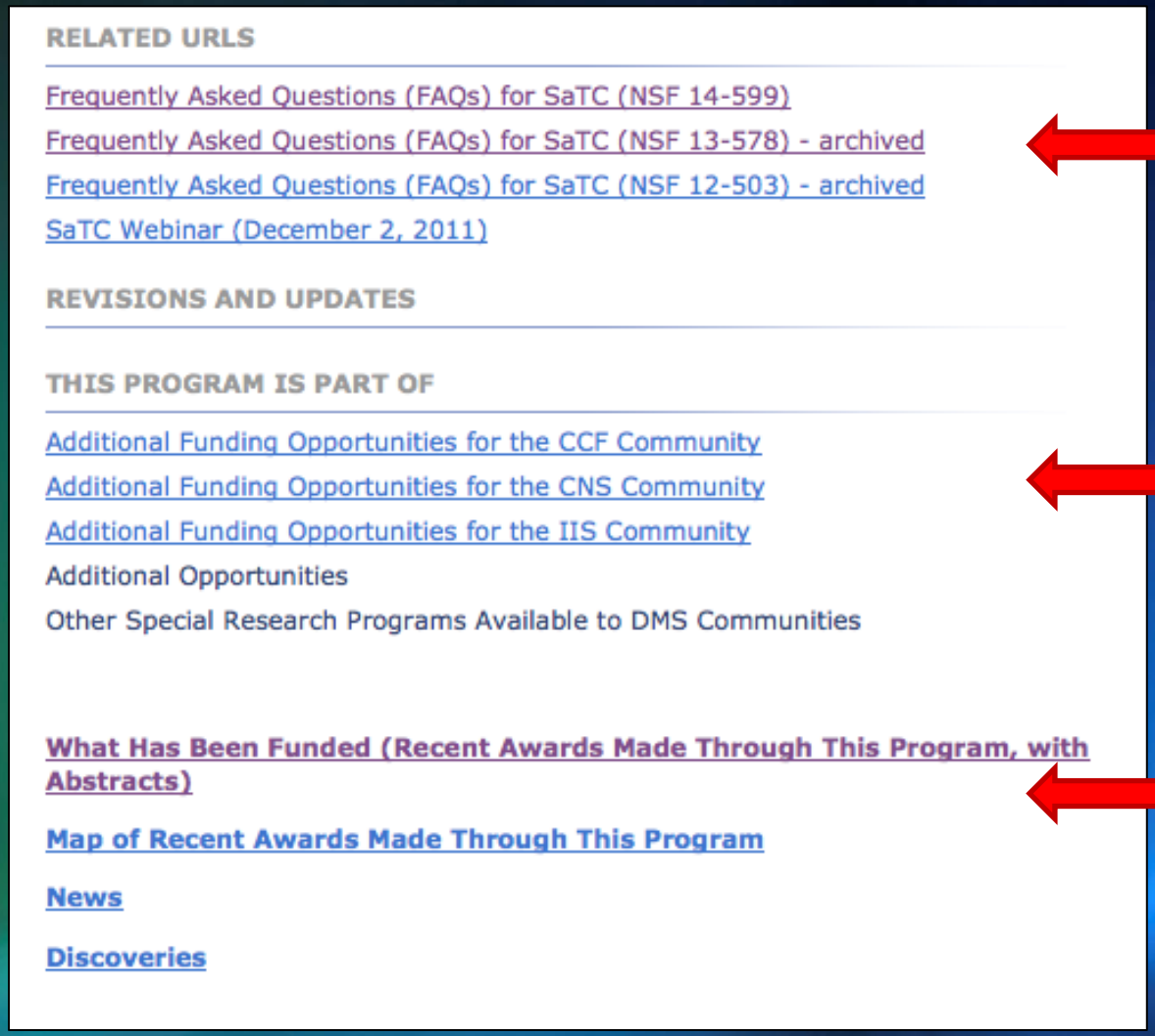
Cyberspace has transformed the daily lives of people for the better. The rush to adopt cyberspace, however, has exposed its fragility and vulnerabilities: corporations, agencies, national infrastructure and individuals have been victims of cyber-attacks. In December 2011, the National Science and Technology Council (NSTC) with the cooperation of NSF issued a broad, coordinated Federal strategic plan for cybersecurity research and development to "change the game," minimize the misuses of cyber technology, bolster education and training in cybersecurity, establish a science of cybersecurity, and transition promising cybersecurity research into practice. This challenge requires a dedicated approach to research, development, and education that leverages the disciplines of mathematics and statistics, the social sciences, and engineering together with the computing, communications and information sciences.

Important announcements

Submission windows, target dates and/or deadlines

Program Synopsis

Drilling Down



Related URLs (FAQs, webinars, etc)

Other related organizations

Past funding by the program

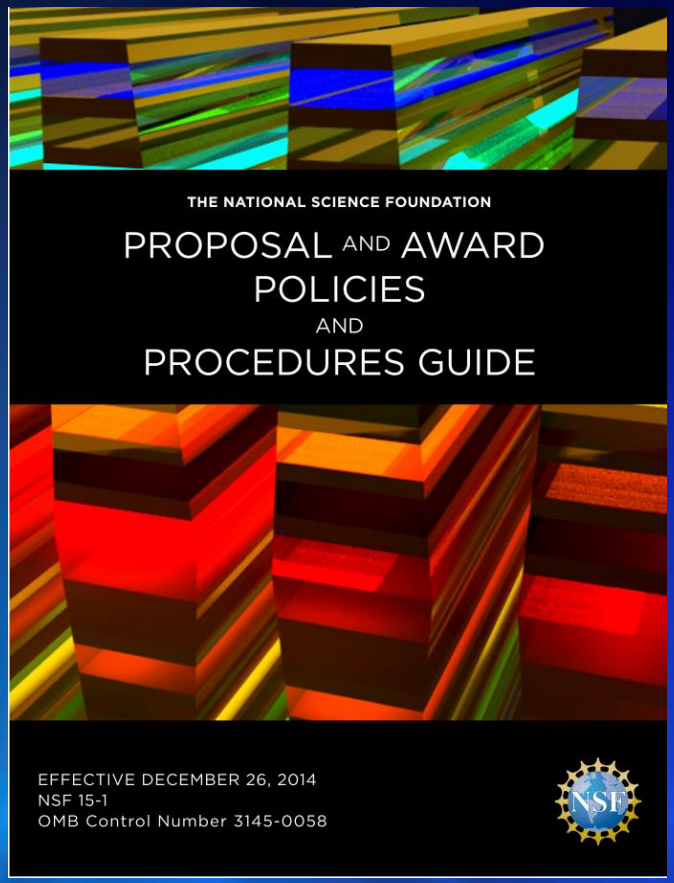
Additional Information on Resources

Join Directorate Specific Listserves!

Use Grants.gov's search feature

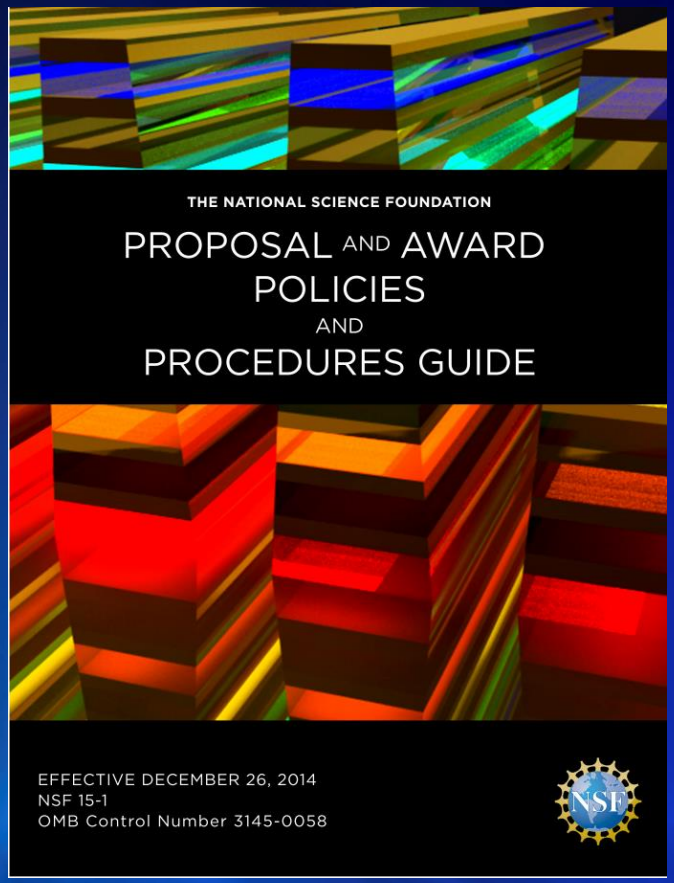
What is the Proposal & Award Policies & Procedures Guide?

The Proposal and Award Policies and Procedures Guide (PAPPG) contains documents relating to NSF's proposal and award process. It has been designed for use by both our customer community and NSF staff and consists of two parts:



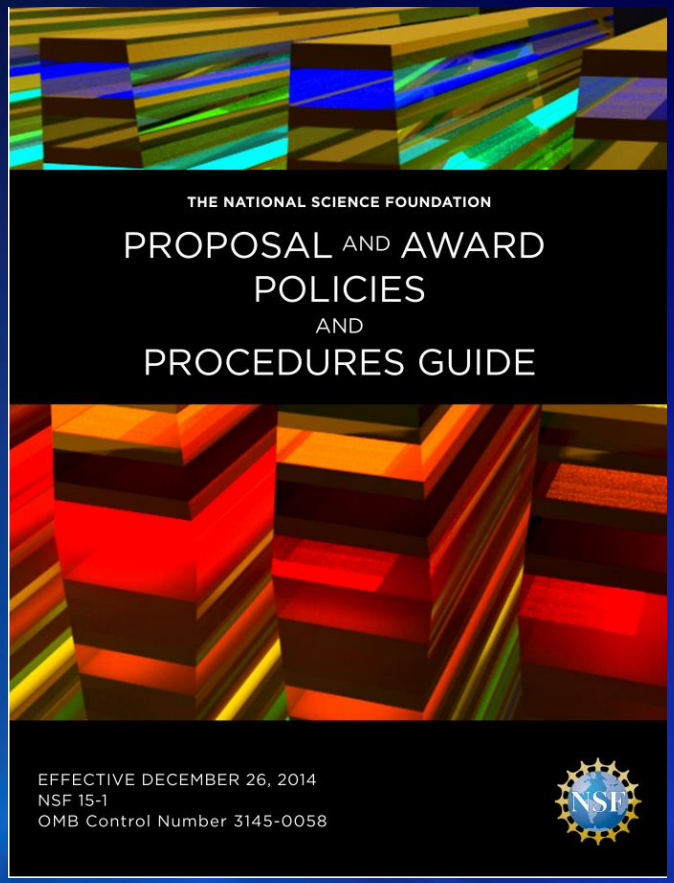
What is the Proposal & Award Policies & Procedures Guide?

Part I is NSF's proposal preparation and submission guidelines -- the NSF Grant Proposal Guide (GPG) and the NSF Grants.gov Application Guide.



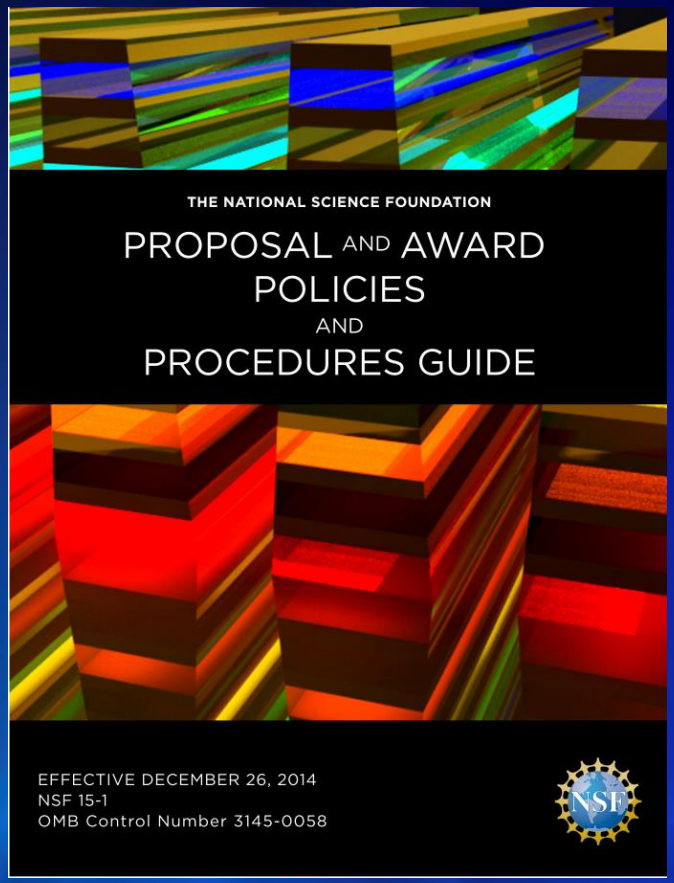
What is the Proposal & Award Policies & Procedures Guide?

Part II is NSF's award and administration guidelines -- the documents used to guide, manage, and monitor the award and administration of grants and cooperative agreements made by NSF.



Grant Proposal Guide

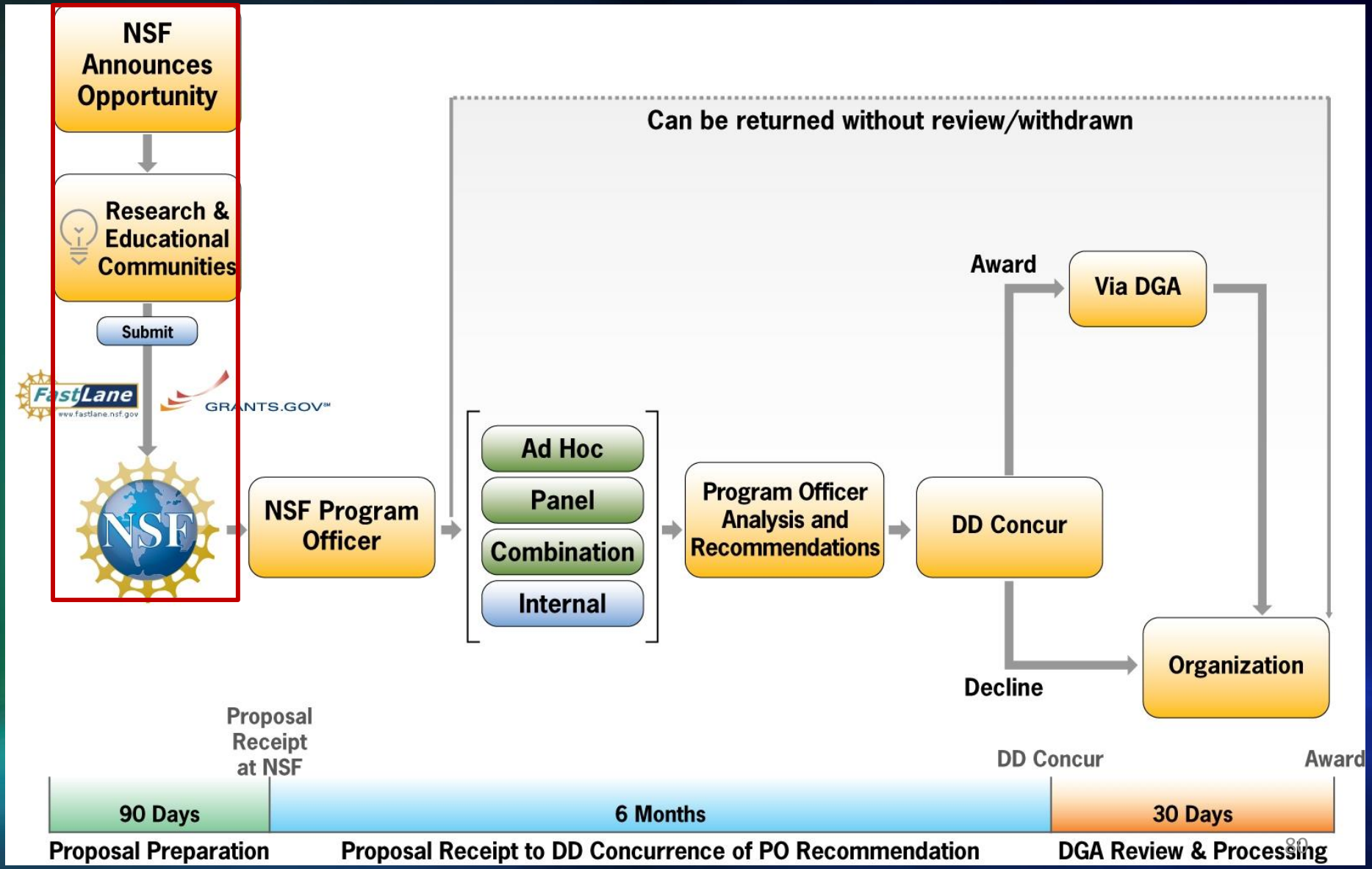
- Provides guidance for preparation and submission of proposals to NSF
- Describes process – and criteria – by which proposals will be reviewed
- Outlines reasons why a proposal may not be accepted or may be returned without review
- Describes process for withdrawals, returns, and declinations
- Describes the NSF Reconsideration Process



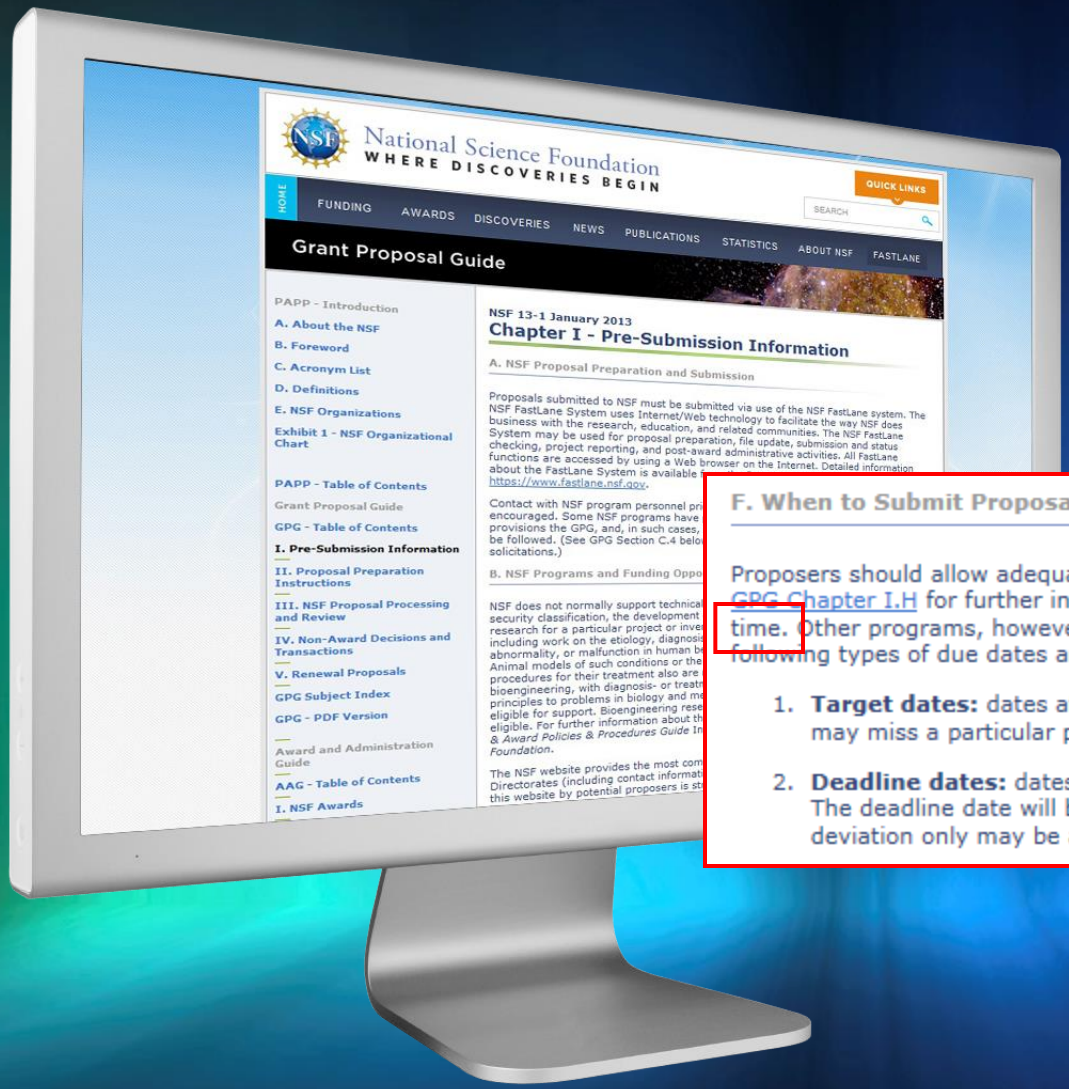
Types of Funding Opportunities

Program Descriptions	Proposals for a **Program Description** must follow the instructions in the GPG.
Program Announcements	Proposals for a **Program Announcement** must follow the instructions in the GPG.
Program Solicitations	Proposals must follow the instructions in the **Program Solicitation**; the instructions in the GPG apply unless otherwise stated in the solicitation.
Dear Colleague Letters	**Dear Colleague Letters** are notifications of opportunities or special competitions for supplements to existing NSF awards.

NSF Proposal & Award Process Timeline



Types of Proposal Submissions



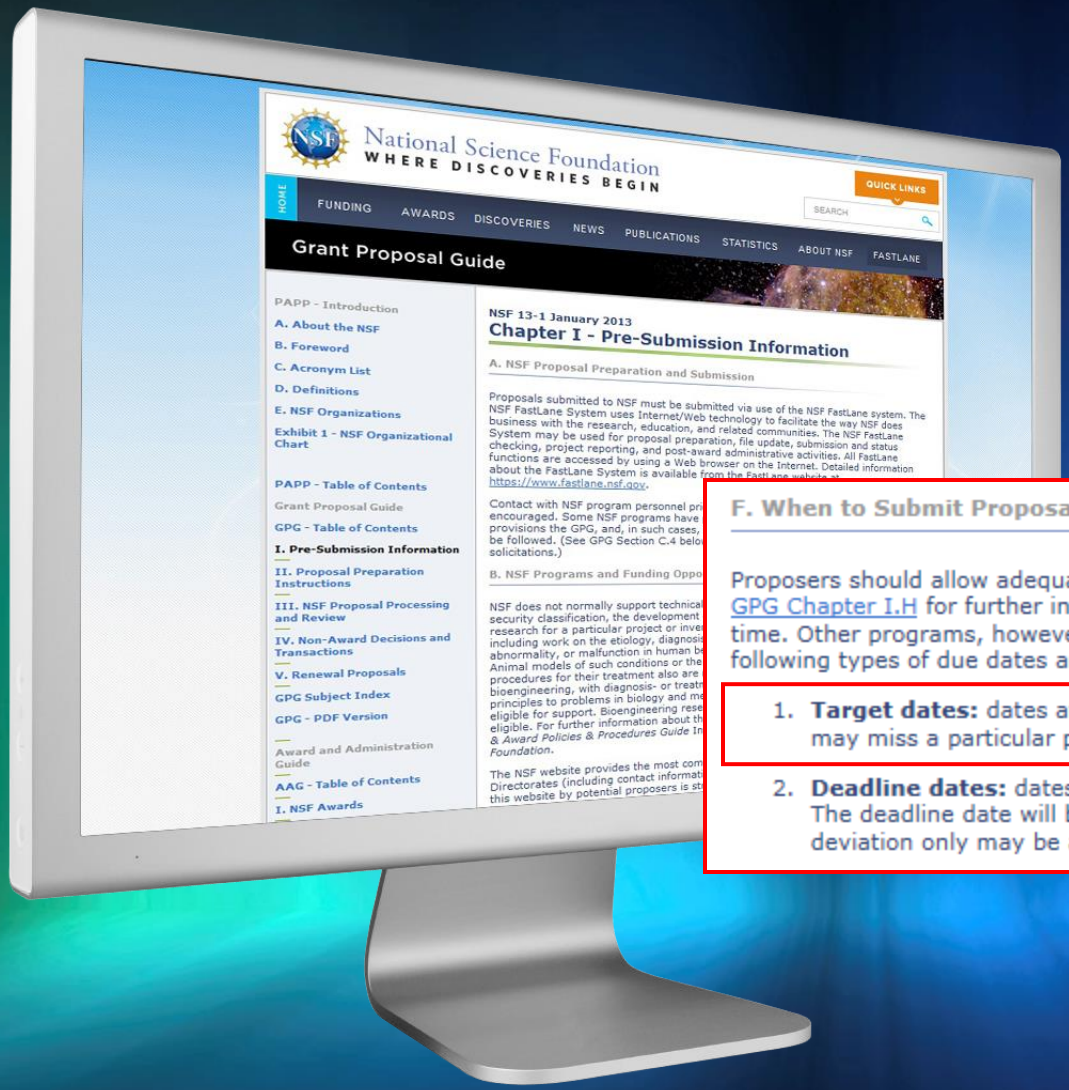
No Deadlines – Proposals may be submitted at any time

F. When to Submit Proposals

Proposers should allow adequate time for NSF review and processing of proposals (see GPG Chapter I.H for further information). Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

1. **Target dates:** dates after which proposals will still be accepted, although they may miss a particular panel or committee meeting.
2. **Deadline dates:** dates after which proposals be returned without review by NSF. The deadline date will be waived only in extenuating circumstances. Such a deviation only may be authorized in accordance with GPG Chapter II.A.

Types of Proposal Submissions



Target Dates –
Talk to the Program Office if you think you might miss the date

F. When to Submit Proposals

Proposers should allow adequate time for NSF review and processing of proposals (see GPG Chapter I.H for further information). Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

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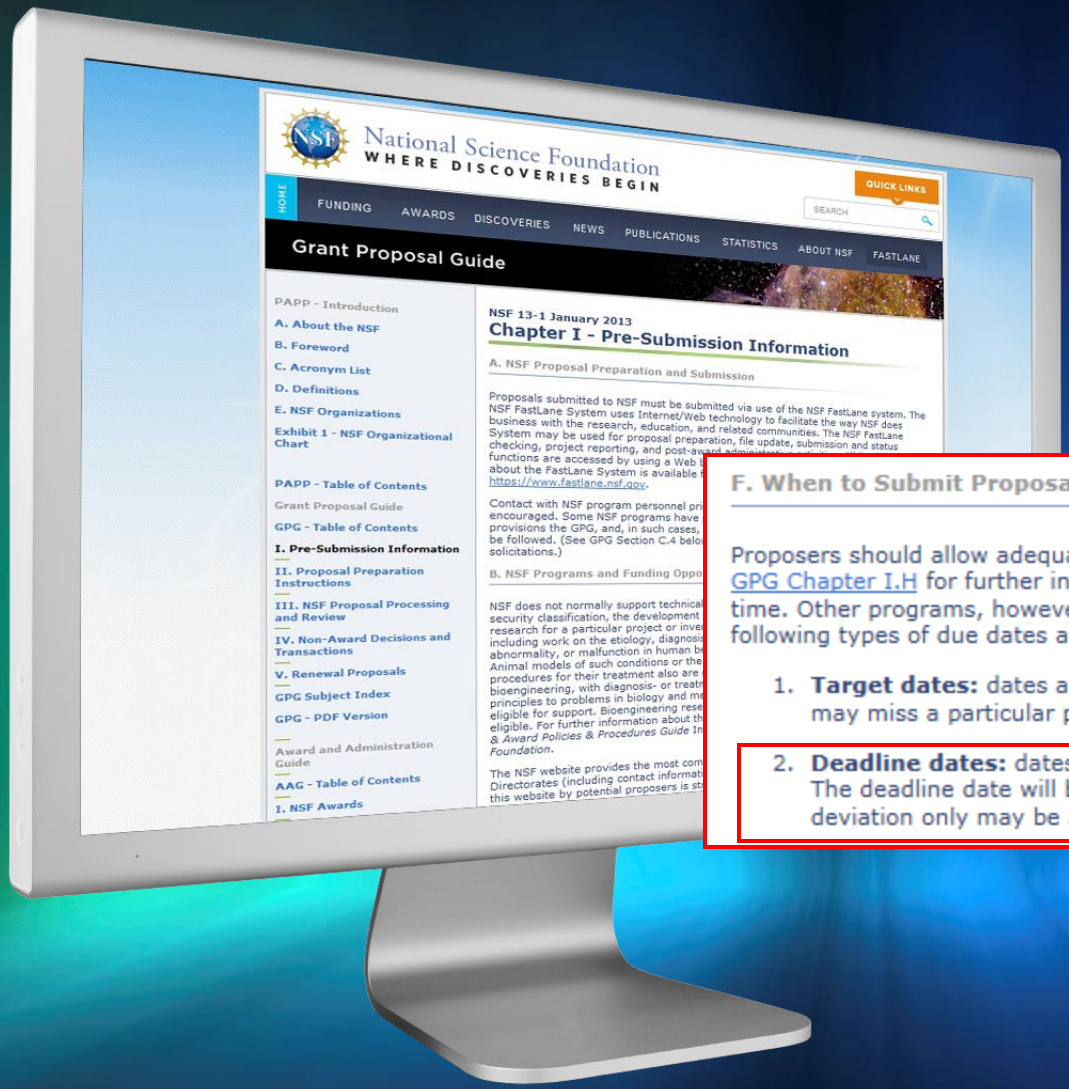
Types of Proposal Submissions



Deadline Dates – Proposals will not be accepted after this date and time (5 pm submitter's local time)

F. When to Submit Proposals

Proposers should allow adequate time for NSF review and processing of proposals (see GPG Chapter I.H for further information). Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

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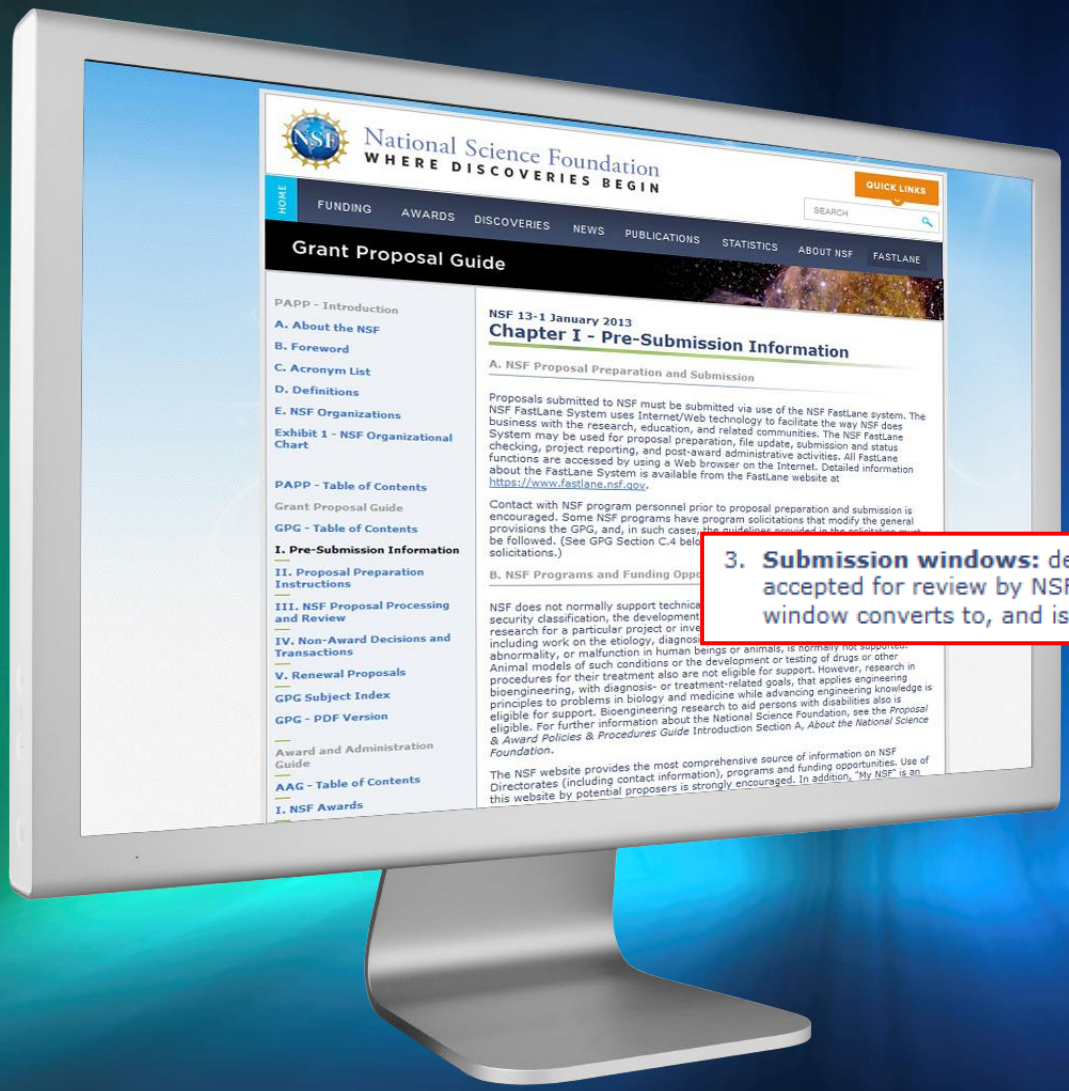
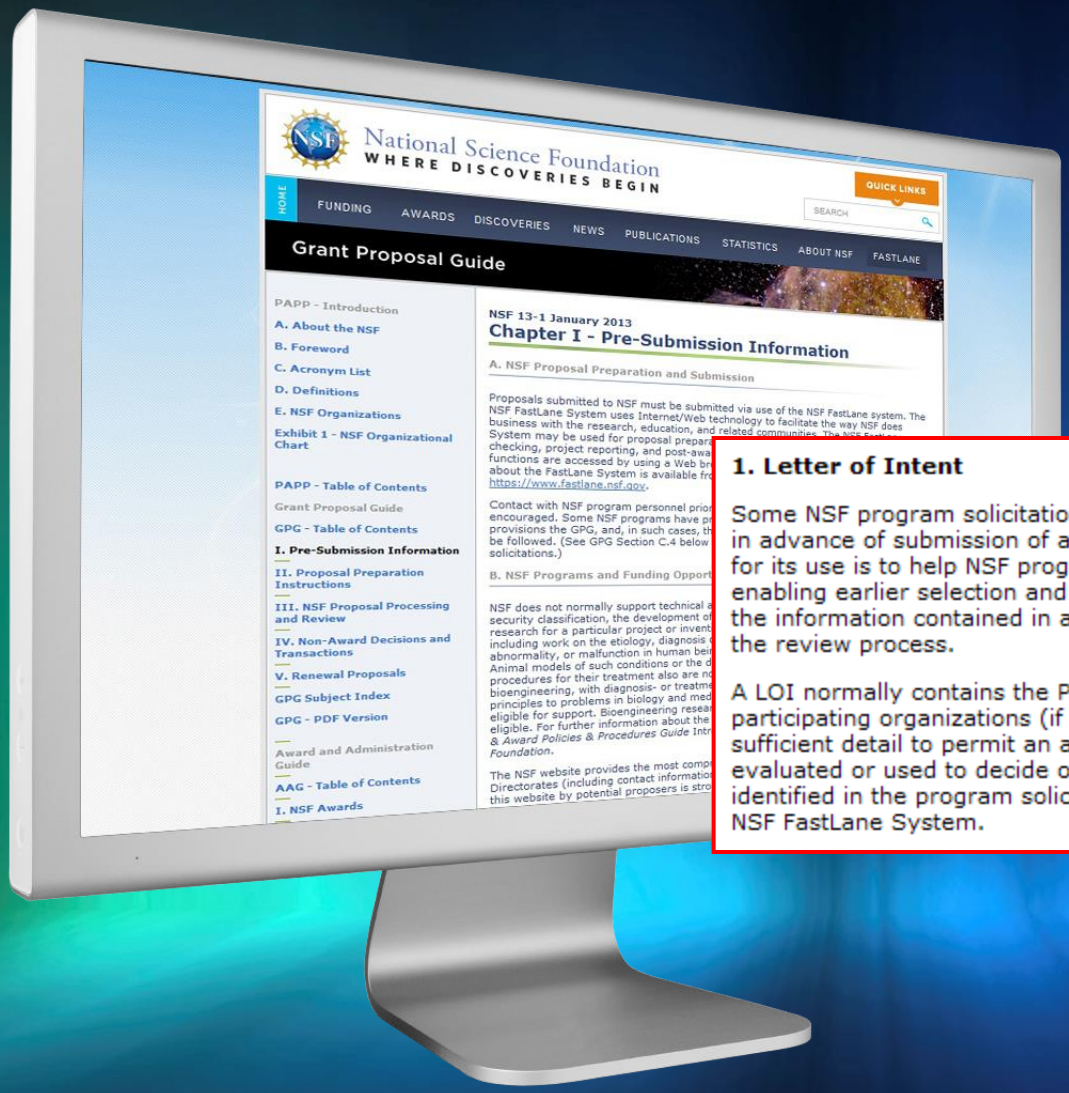
Types of Proposal Submissions



Submission Windows – Closing date converts to a deadline date

3. **Submission windows:** designated periods of time during which proposals will be accepted for review by NSF. It is NSF's policy that the end date of a submission window converts to, and is subject to, the same policies as a deadline date.

Types of Proposal Submissions



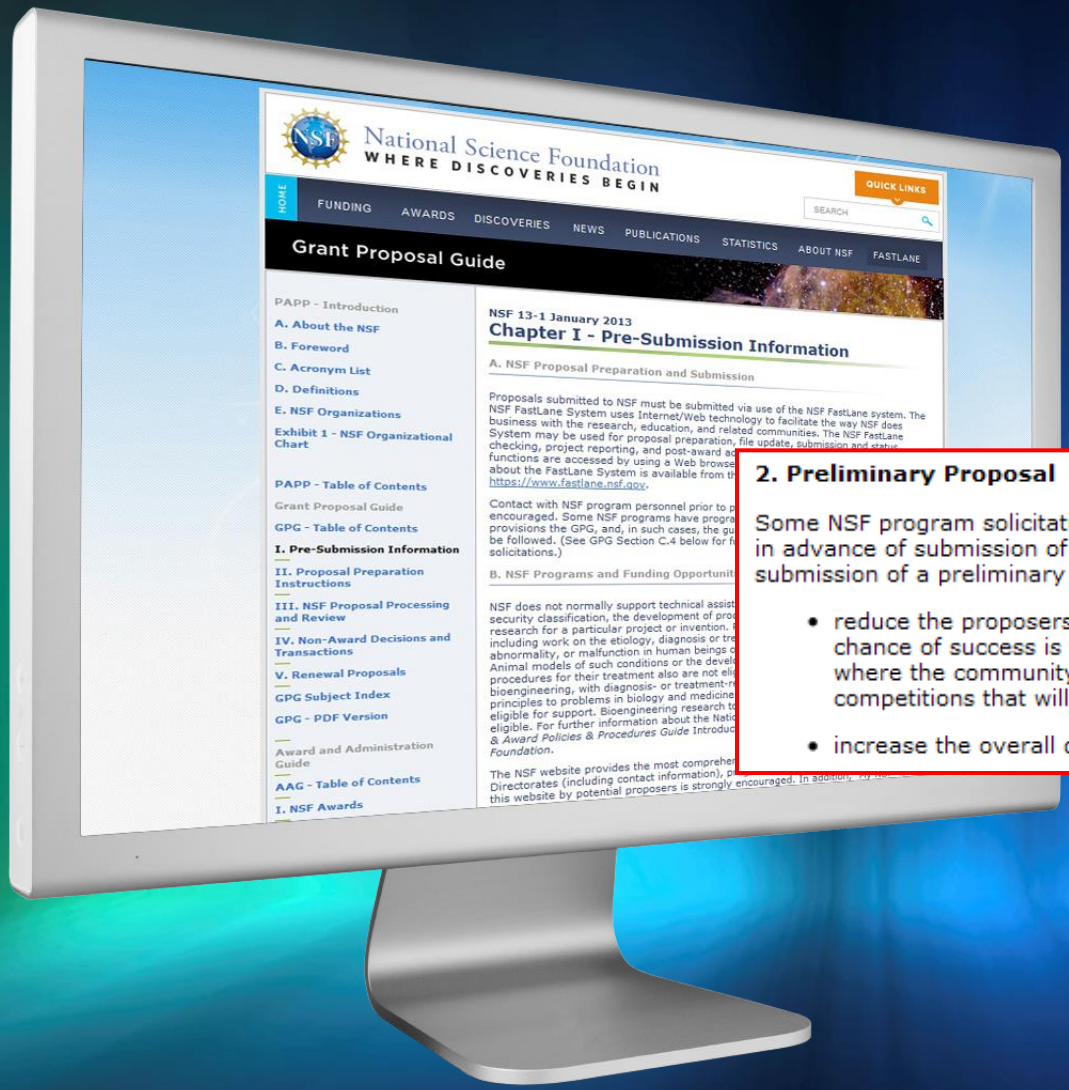
Letters of Intent –
Enables better management of reviewers and panelists

1. Letter of Intent

Some NSF program solicitations require or request submission of a letter of intent (LOI) in advance of submission of a full proposal. A LOI is not binding. The predominant reason for its use is to help NSF program staff to gauge the size and range of the competition, enabling earlier selection and better management of reviewers and panelists. In addition, the information contained in a LOI is used to help avoid potential conflicts of interest in the review process.

A LOI normally contains the PI's and co-PI's names, a proposed title, a list of possible participating organizations (if applicable), and a synopsis that describes the work in sufficient detail to permit an appropriate selection of reviewers. A LOI is not externally evaluated or used to decide on funding. The requirement to submit a LOI will be identified in the program solicitation, and such letters are submitted electronically via the NSF FastLane System.

Types of Proposal Submissions



Preliminary Proposals – Sometimes required, sometimes optional

2. Preliminary Proposal

Some NSF program solicitations require or request submission of a preliminary proposal in advance of submission of a full proposal. The two predominant reasons for requiring submission of a preliminary proposal are to:

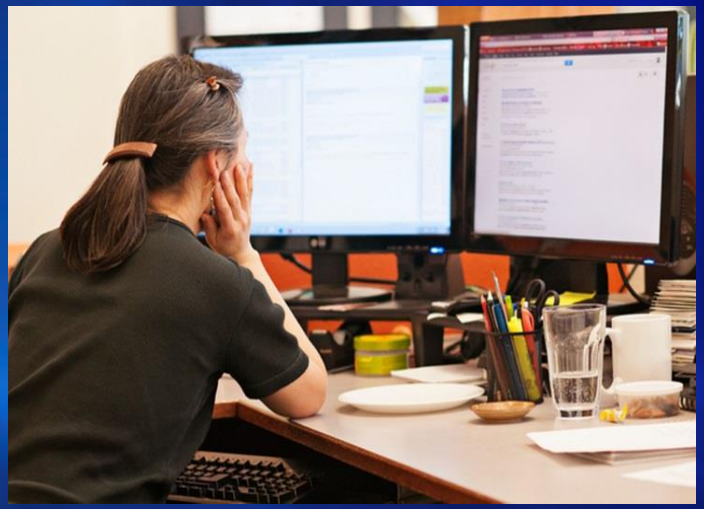
- reduce the proposers' unnecessary effort in proposal preparation when the chance of success is very small. This is particularly true of exploratory initiatives where the community senses that a major new direction is being identified, or competitions that will result in a small number of actual awards; and
- increase the overall quality of the full submission.

Questions on Funding Opportunities?

Contact your NSF Program Officer- after checking the website and solicitation ☺

Work with your organization's sponsored projects office

Look for workshops on federal research funding



Things to Consider Before Applying…

Five Key Elements

1. Great idea
2. Fit with current research expertise and career development plans
3. Ability to devise a strategy including benchmarks, timelines, and metrics
4. Adequate resources to accomplish your project
5. Assessment Plan

Developing your Proposal

Key Questions for Prospective Investigators

- What has already been done?
- What do you intend to do?
- Why is the work important?
- How is the work unique or cutting edge?
- How are you going to do the work?
- Do you have the right team?

Proposal Development Strategies:

What Do You Need Besides $???

- Prepare to do the project
  - Realistically assess needs
  - Determine available resources
  - Develop preliminary data
  - Present to colleagues/mentors/students
- Determine possible funding sources (NSF may not be the right or the only one)

Proposal Development Strategies:

What details should you glean from the solicitation?

- Overall scope and mission
- Instructions (deviations from the GPG)
- How your proposed project fits with the solicitation
- Review procedures and criteria
- Deadlines

Proposal Development Strategies:

Who Should You Talk To?
How Should You Contact Them?

NSF Program Officer

- Your proposed project
- Clarifications on specific program requirements/limitations
- Current program patterns

Your organization's sponsored projects office

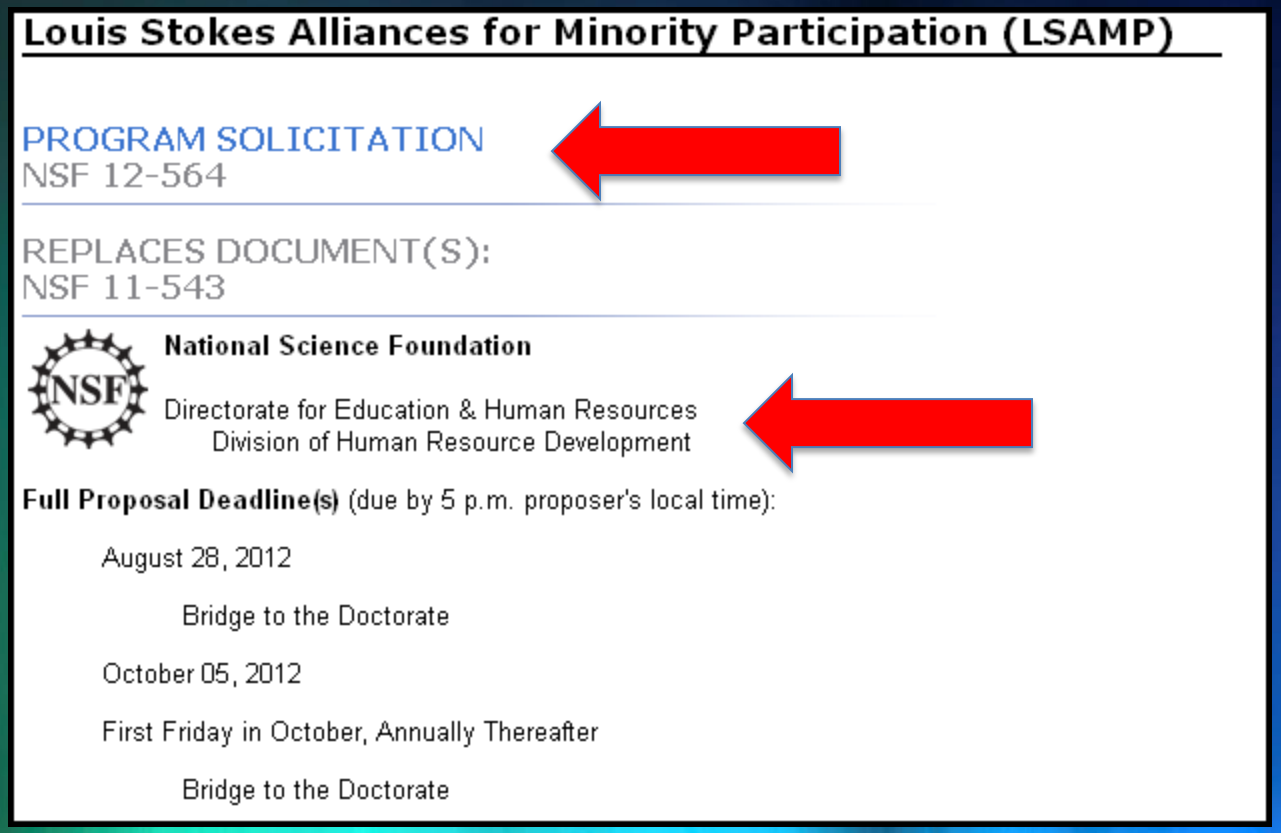
- University guidelines for applications
- Institutional Review Board "IRB" Approvals
  (IACUC approvals, etc.)

So You Want to Write a Proposal…

What to Look for in a Program Announcement or Solicitation

- Goals
- Eligibility Requirements
- Special proposal preparation and/or award requirements
- Review Criteria

Sample Cover Page of a Solicitation



Louis Stokes Alliances for Minority Participation (LSAMP)

PROGRAM SOLICITATION
NSF 12-564

REPLACES DOCUMENT(S):
NSF 11-543

National Science Foundation

Directorate for Education & Human Resources
Division of Human Resource Development

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

August 28, 2012

Bridge to the Doctorate

October 05, 2012

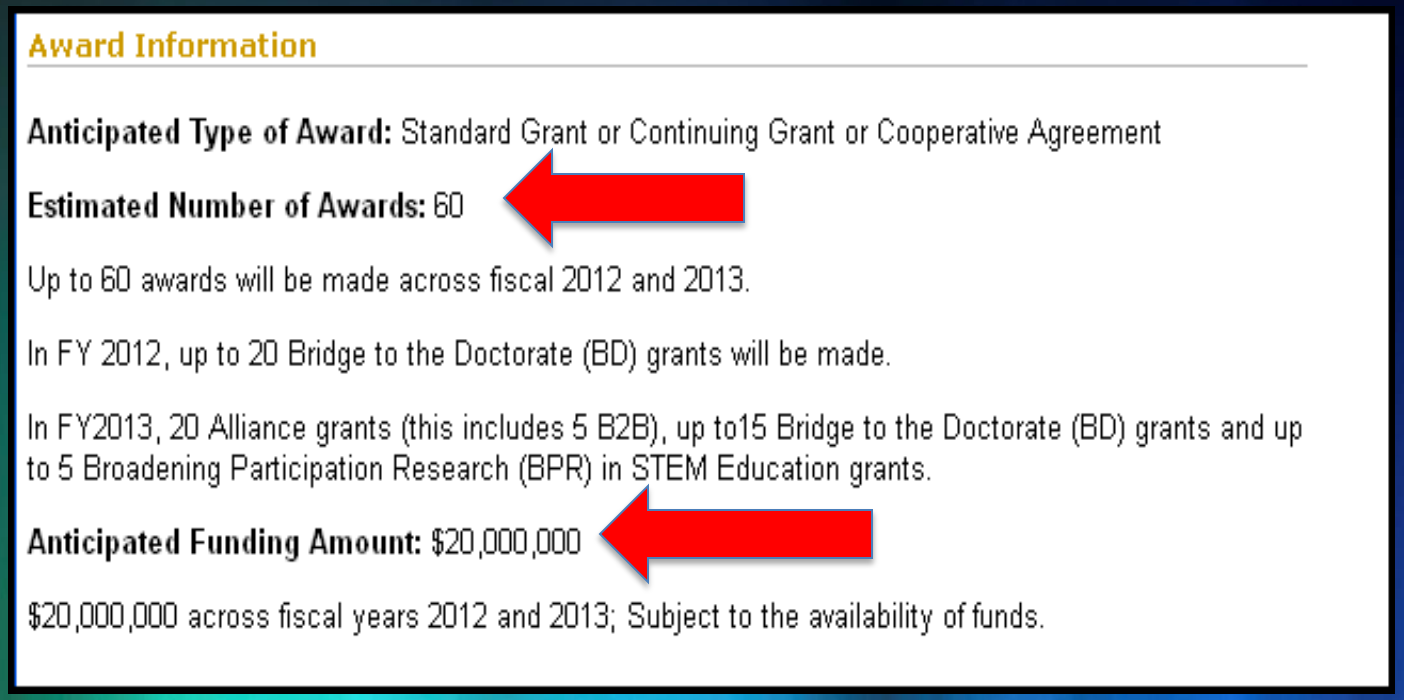
First Friday in October, Annually Thereafter

Bridge to the Doctorate

Program Solicitation Number

NSF Directorates and Offices providing funding for this opportunity

Sample Cover Page of a Solicitation



Award Information

Anticipated Type of Award: Standard Grant or Continuing Grant or Cooperative Agreement

Estimated Number of Awards: 60

Up to 60 awards will be made across fiscal 2012 and 2013.

In FY 2012, up to 20 Bridge to the Doctorate (BD) grants will be made.

In FY2013, 20 Alliance grants (this includes 5 B2B), up to15 Bridge to the Doctorate (BD) grants and up to 5 Broadening Participation Research (BPR) in STEM Education grants.

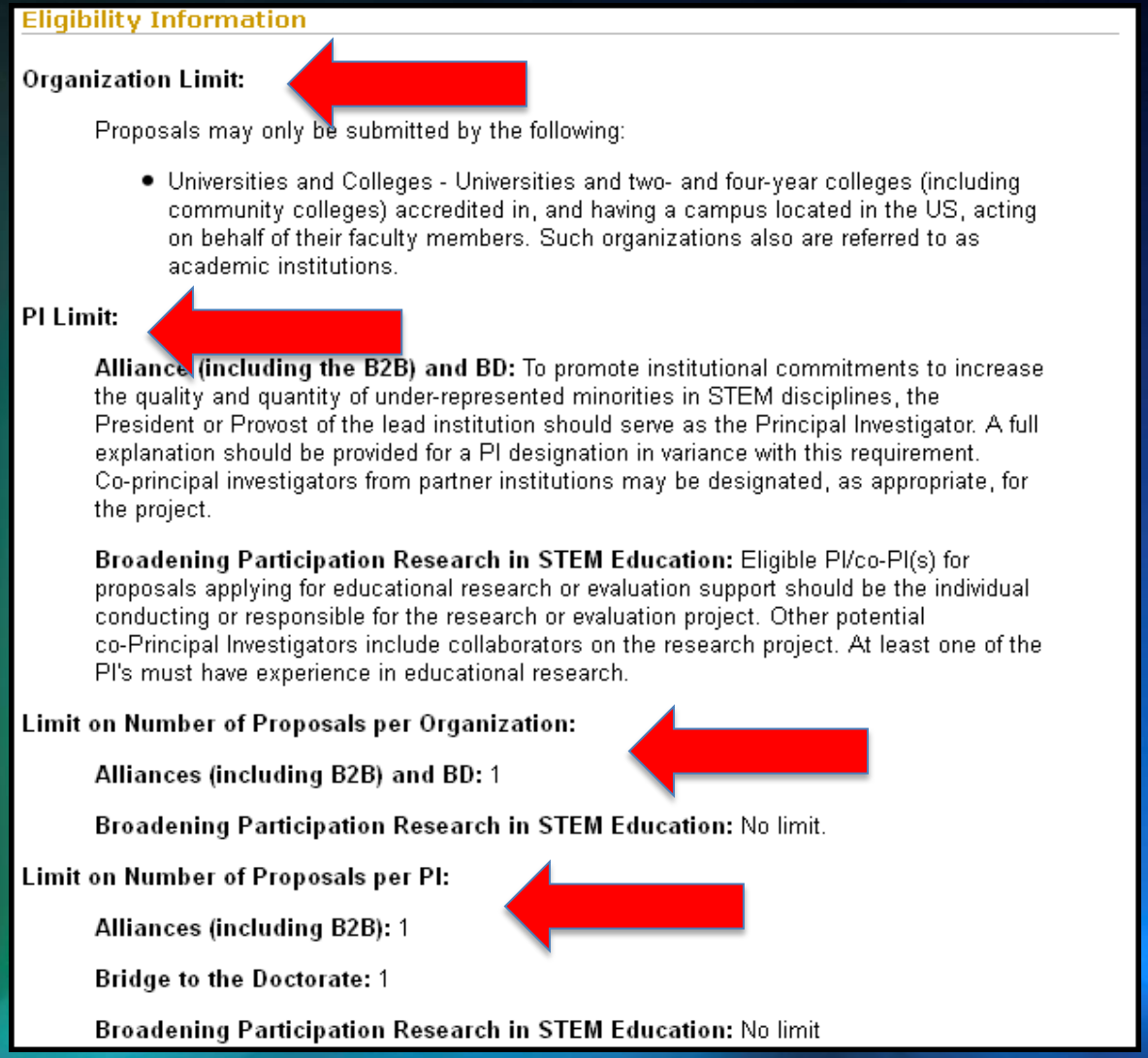
Anticipated Funding Amount: $20,000,000

$20,000,000 across fiscal years 2012 and 2013; Subject to the availability of funds.

Expected number of awards funded by the program per year

Expected funds available to the program per year

Sample Cover Page of a Solicitation



Eligibility Information

Organization Limit:

Proposals may only be submitted by the following:

- Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.

PI Limit:

Alliances (including the B2B) and BD: To promote institutional commitments to increase the quality and quantity of under-represented minorities in STEM disciplines, the President or Provost of the lead institution should serve as the Principal Investigator. A full explanation should be provided for a PI designation in variance with this requirement. Co-principal investigators from partner institutions may be designated, as appropriate, for the project.

Broadening Participation Research in STEM Education: Eligible PI/co-PI(s) for proposals applying for educational research or evaluation support should be the individual conducting or responsible for the research or evaluation project. Other potential co-Principal Investigators include collaborators on the research project. At least one of the PI's must have experience in educational research.

Limit on Number of Proposals per Organization:

Alliances (including B2B) and BD: 1

Broadening Participation Research in STEM Education: No limit.

Limit on Number of Proposals per PI:

Alliances (including B2B): 1

Bridge to the Doctorate: 1

Broadening Participation Research in STEM Education: No limit

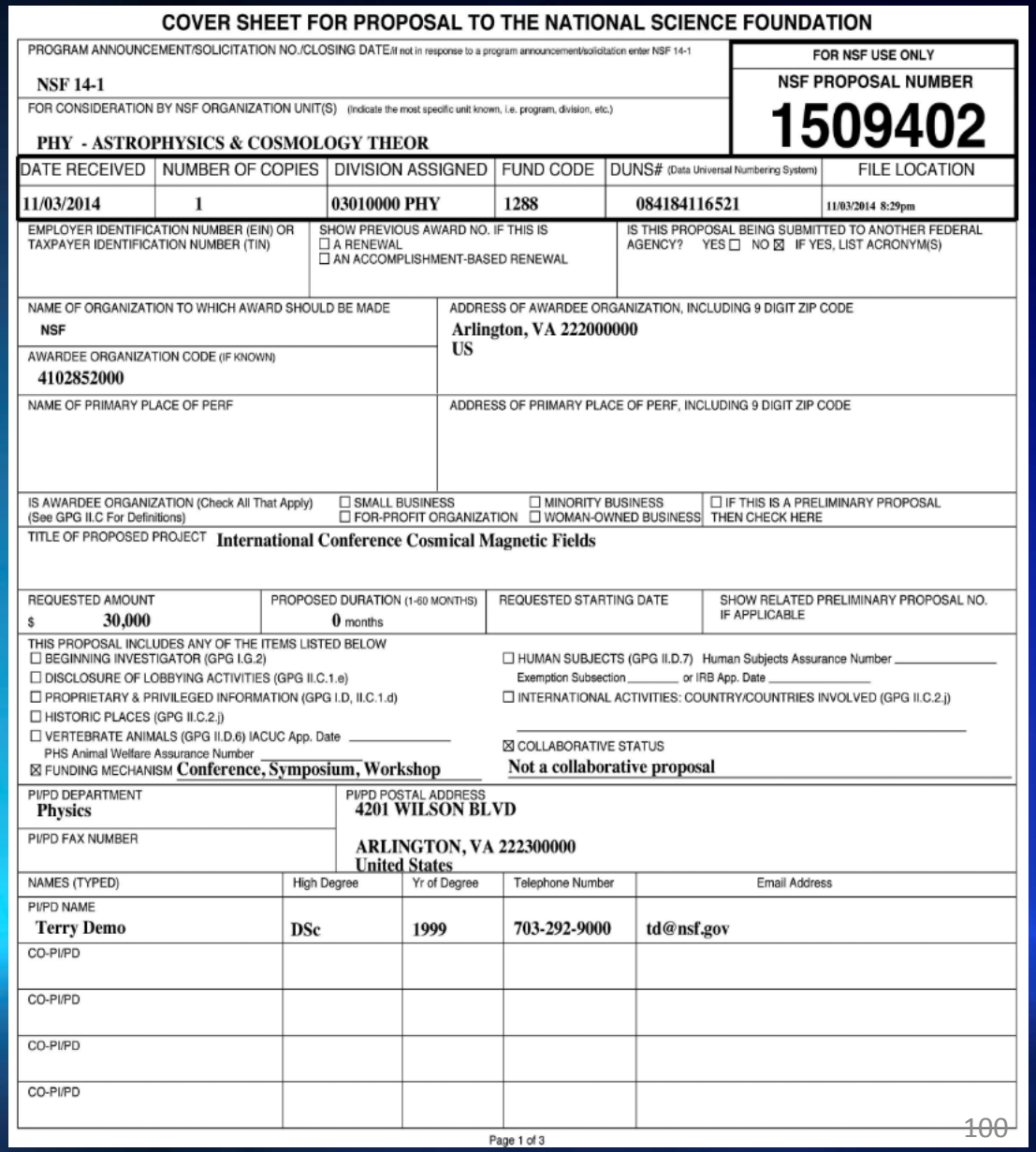
Eligibility information for institutions/PIs submitting proposals

Parts of a Proposal

Parts of an NSF Proposal

Cover Sheet

Many of the boxes on the cover sheet are electronically prefilled as part of the FastLane login process.



COVER SHEET FOR PROPOSAL TO THE NATIONAL SCIENCE FOUNDATION

PROGRAM ANNOUNCEMENT/SOLICITATION NO./CLOSING DATE (If not in response to a program announcement/solicitation enter NSF 14-1)
NSF 14-1

FOR NSF USE ONLY
NSF PROPOSAL NUMBER
1509402

FOR CONSIDERATION BY NSF ORGANIZATION UNIT(S) (Indicate the most specific unit known, i.e. program, division, etc.)
PHY - ASTROPHYSICS & COSMOLOGY THEOR

DATE RECEIVED	NUMBER OF COPIES	DIVISION ASSIGNED	FUND CODE	DUNS# (Data Universal Numbering System)	FILE LOCATION
11/03/2014	1	03010000 PHY	1288	084184116521	11/03/2014 8:29pm

EMPLOYER IDENTIFICATION NUMBER (EIN) OR TAXPAYER IDENTIFICATION NUMBER (TIN)

SHOW PREVIOUS AWARD NO. IF THIS IS
☐ A RENEWAL
☐ AN ACCOMPLISHMENT-BASED RENEWAL

IS THIS PROPOSAL BEING SUBMITTED TO ANOTHER FEDERAL AGENCY? YES ☐ NO ☒ IF YES, LIST ACRONYM(S)

NAME OF ORGANIZATION TO WHICH AWARD SHOULD BE MADE
NSF

AWARDEE ORGANIZATION CODE (IF KNOWN)
4102852000

ADDRESS OF AWARDEE ORGANIZATION, INCLUDING 9 DIGIT ZIP CODE
Arlington, VA 222000000
US

NAME OF PRIMARY PLACE OF PERF

ADDRESS OF PRIMARY PLACE OF PERF, INCLUDING 9 DIGIT ZIP CODE

IS AWARDEE ORGANIZATION (Check All That Apply) (See GPG II.C For Definitions)
☐ SMALL BUSINESS ☐ MINORITY BUSINESS
☐ FOR-PROFIT ORGANIZATION ☐ WOMAN-OWNED BUSINESS

☐ IF THIS IS A PRELIMINARY PROPOSAL THEN CHECK HERE

TITLE OF PROPOSED PROJECT International Conference Cosmical Magnetic Fields

REQUESTED AMOUNT	PROPOSED DURATION (1-60 MONTHS)	REQUESTED STARTING DATE	SHOW RELATED PRELIMINARY PROPOSAL NO. IF APPLICABLE
$ 30,000	0 months		

THIS PROPOSAL INCLUDES ANY OF THE ITEMS LISTED BELOW
☐ BEGINNING INVESTIGATOR (GPG I.G.2)
☐ DISCLOSURE OF LOBBYING ACTIVITIES (GPG II.C.1.e)
☐ PROPRIETARY & PRIVILEGED INFORMATION (GPG I.D, II.C.1.d)
☐ HISTORIC PLACES (GPG II.C.2.j)
☐ VERTEBRATE ANIMALS (GPG II.D.6) IACUC App. Date
PHS Animal Welfare Assurance Number
☒ FUNDING MECHANISM Conference, Symposium, Workshop
☐ HUMAN SUBJECTS (GPG II.D.7) Human Subjects Assurance Number
Exemption Subsection or IRB App. Date
☐ INTERNATIONAL ACTIVITIES: COUNTRY/COUNTRIES INVOLVED (GPG II.C.2.j)
☒ COLLABORATIVE STATUS
Not a collaborative proposal

PI/PD DEPARTMENT
Physics

PI/PD FAX NUMBER

PI/PD POSTAL ADDRESS
4201 WILSON BLVD
ARLINGTON, VA 222300000
United States

NAMES (TYPED)	High Degree	Yr of Degree	Telephone Number	Email Address
PI/PD NAME Terry Demo	DSc	1999	703-292-9000	td@nsf.gov
CO-PI/PD				
CO-PI/PD				
CO-PI/PD				
CO-PI/PD				

Page 1 of 3

Parts of an NSF Proposal

Project Summary Requirements:

Overview

Statement on Intellectual Merit

Statement of Broader Impacts

Special characters (e.g., formulas) may be uploaded as a PDF

Project Description Addresses:

What you want to do

Why you want to do it

How you plan to do it

How you measure success

What are the benefits

A separate section, *Broader Impacts of the Proposal Work*, must be completed

Parts of an NSF Proposal

Results from Prior NSF Support

References Cited

Biographical Sketches

Budget

Budgetary Guidelines

Amounts should be:

- **Realistic and reasonable**
- **Well-justified and should establish need**
- **Consistent with program guidelines in the solicitation, GPG, and in the Award and Administration Guide (AAG)**

Eligible costs consist of:

- **Personnel**
- **Equipment**
- **Travel**
- **Participant support**
- **Other direct costs** (e.g., subawards, consultant services, computer services, and publications costs)
- **Indirect costs** (as appropriate)

NSF Cost Sharing Policy

- **Inclusion of *voluntary committed* cost sharing is <u>prohibited</u> in the budget of solicited & unsolicited proposals.**

- **Organizations may, at their own discretion, continue to contribute voluntary uncommitted cost sharing to NSF-sponsored projects as part of the section for Facilities, Equipment, and Other Resources.**

Sections of an NSF Proposal

Facilities, Equipment, and Other Resources

Used to assess the adequacy of the organizational resources available to perform the effort proposed. Should not contain quantifiable financial information.

Current and Pending Support

This section of the proposal requires reporting on all current and pending support for ongoing projects and proposals from any funding source.

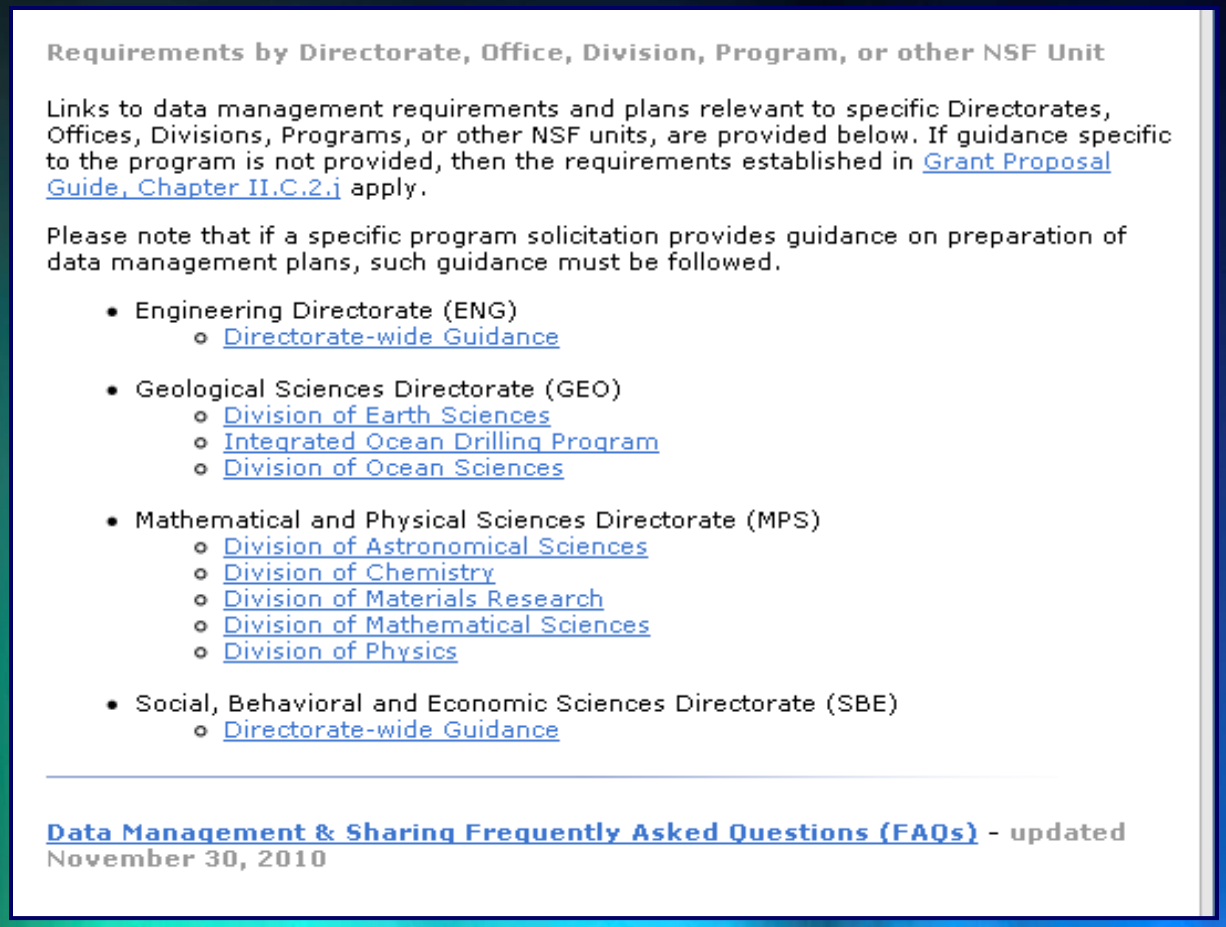
Special Information and Supplementary Documentation

- Letters of support versus letters of commitment
- Postdoctoral mentoring plans
- Data management plans
- You should alert NSF officials to unusual circumstances that require special handling (i.e. proprietary information)
- Solicitations may specify what is and is not allowed to be submitted

Mentoring for Postdoctoral Researchers

- **Explicit description of the mentoring activities**
- **Must include a mentoring plan as a supplementary document (maximum one-page)**
- **For collaborative proposals, lead organization must submit a single mentoring plan for all postdoctoral researchers supported under the entire project.**

Data Management Plan Requirements



Requirements by Directorate, Office, Division, Program, or other NSF Unit

Links to data management requirements and plans relevant to specific Directorates, Offices, Divisions, Programs, or other NSF units, are provided below. If guidance specific to the program is not provided, then the requirements established in Grant Proposal Guide, Chapter II.C.2.j apply.

Please note that if a specific program solicitation provides guidance on preparation of data management plans, such guidance must be followed.

- Engineering Directorate (ENG)
  - Directorate-wide Guidance
- Geological Sciences Directorate (GEO)
  - Division of Earth Sciences
  - Integrated Ocean Drilling Program
  - Division of Ocean Sciences
- Mathematical and Physical Sciences Directorate (MPS)
  - Division of Astronomical Sciences
  - Division of Chemistry
  - Division of Materials Research
  - Division of Mathematical Sciences
  - Division of Physics
- Social, Behavioral and Economic Sciences Directorate (SBE)
  - Directorate-wide Guidance

Data Management & Sharing Frequently Asked Questions (FAQs) - updated November 30, 2010

Requirements may vary by Directorate or Office

nsf.gov/bfa/dias/policy/dmp.jsp

Questions?

NSF's Crosscutting Programs

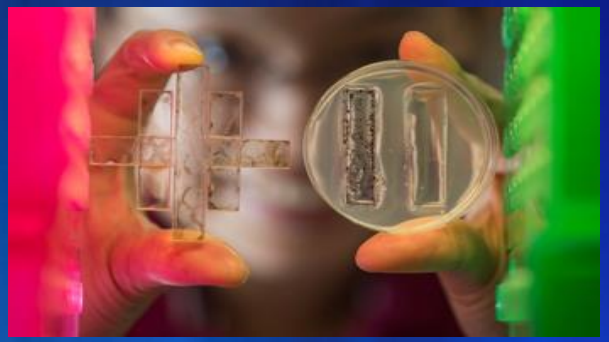
What Is a Crosscutting Program?

NSF has many programs that are sponsored by more than one NSF unit…. cutting across the Foundation in different ways.

….NSF also participates in many programs with other U.S. government agencies.

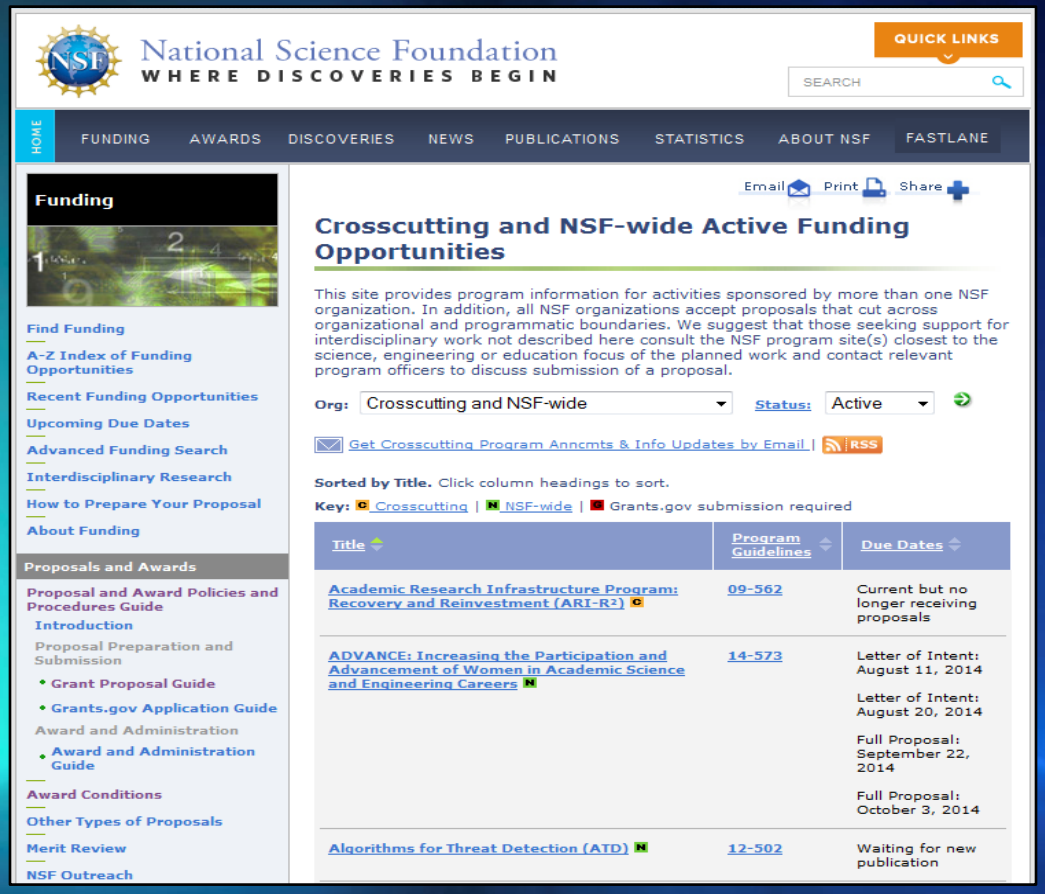
Types of Crosscutting Activities

- International
- Interdisciplinary research – theme-based (e.g., Designing Materials, Hazards and Disasters)
- People-oriented (e.g., ADVANCE, CAREER, REU, Work-Life Balance)
- Infrastructure (e.g., MRI)
- Translational (ICorps, SBIR)
- Institutional, Centers (e.g., IUCRC, STC)



Find Funding for Crosscutting Programs

Go to: www.nsf.gov/funding/pgm.list.jsp?type=xcut



RAPID/ EAGER

Grants for Rapid Response Research (RAPID)

Severe Urgency

Up to $200K/one year

Brief project description

Internal review

EArly-concept Grants for Exploratory Research (EAGER)

Potentially transformative

Up to $300K/one year

“High risk-high payoff"

Internal review

Rare but occasional external review

NSF Research Traineeship (NRT) Program

Encouraging the development and implementation of bold, new, potentially transformative, and scalable models for STEM graduate training

Traineeship Track

$3,000,000 for up to 5 years

Innovations in Graduate Education (IGE) Track

$300,000 - $500,000 for 2-3 years

Application Deadline : 5/6/2015

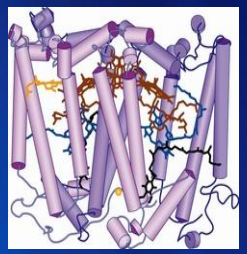
International - A Crosscutting Portfolio

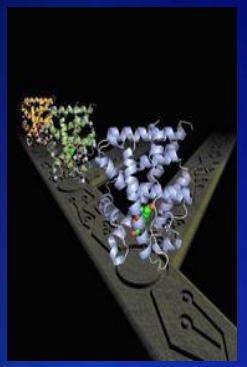
International activities at NSF

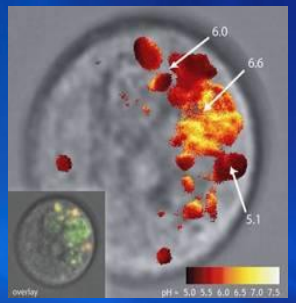
- Span all NSF Directorates and Offices
- Globalize NSF research and education
- Strengthen partnerships with foreign counterpart funders
- Involve cooperation with other U.S. government agencies, private foundations

Examples of Support for International Activities

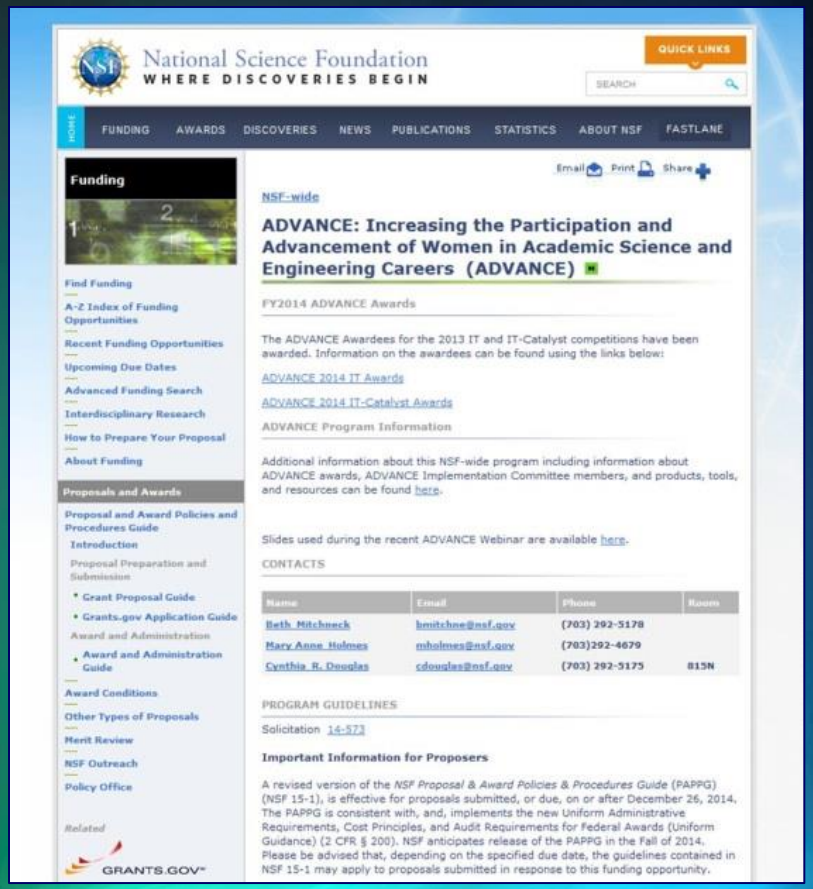
- Partnerships for International Research and Education (PIRE)
- Science Across Virtual Institutes (SAVI)
- Partnerships for Enhanced Engagement in Research (PEER) – with USAID
- International Research Experiences for Students (IRES)
- Graduate Research Opportunities Worldwide (GROW)
- East Asia Pacific Summer Institutes (EAPSI)
- (International) Postdoctoral Research Fellowship Program







ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers



Goals:

- Systemic approaches to increase the representation and advancement of women in academic STEM careers.
- Contribute to and inform the general knowledge base on gender equity in the academic STEM disciplines.

Graduate Research Fellowship Program

Goals:

- Select, recognize, and financially support individuals with the demonstrated potential to be high achieving scientists and engineers, early in their careers.
- Broaden participation in science and engineering of underrepresented groups, including women, minorities, persons with disabilities, and veterans

5 Year Award = $138,000

$34,000/year for 3 years +

+

$12,000 Educational allowance to institution

Professional Development Opportunities:
GROW: International Research
GRIP: Internships

Supercomputer access: XSEDE

Career Life Balance (family leave)

RESOURCES:

Solicitation and links
www.nsf.gov/grfp

NSF GRFP FastLane Website
www.fastlane.nsf.gov/grfp

Application, guides, announcements
GRFP Website, www.nsfgrfp.org

Current & former Fellows
866-NSF-GRFP, info@nsfgrfp.org

Major Research Instrumentation (MRI)

Goals:

- Support acquisition of major state-of-the-art instrumentation
- Foster development of the next generation of major instrumentation
- Integrate research with education
- Use, advance, and/or expand the Nation's cyber-infrastructure and/or high performance computing capability
- Promote academic and private sector instrument development partnerships

Search Results

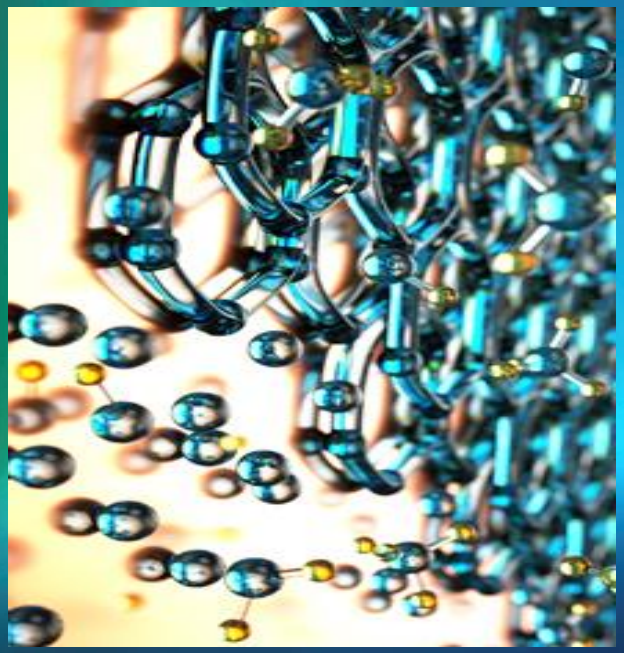
Doctoral Dissertation Research Improvement Awards - DDRI

Grant Opportunities for Academic Liaison with Industry - GOALI

Promotes university-industry partnerships

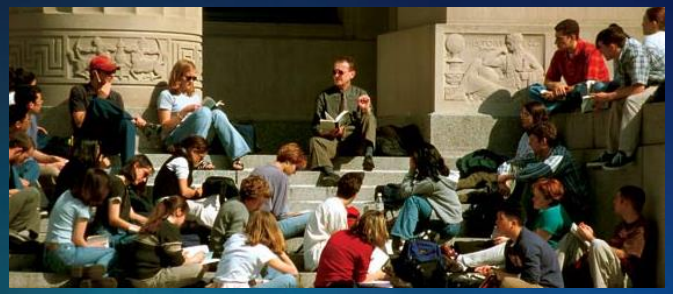
Supplies project funds or fellowships/traineeships

Supports eclectic mix of industry-university linkages



Encourages Research that lies beyond that which industry would normally fund solo

Support for Undergraduates
RUI, ROA for PUIs



RUIs and ROAs support research by faculty members at PUIs.

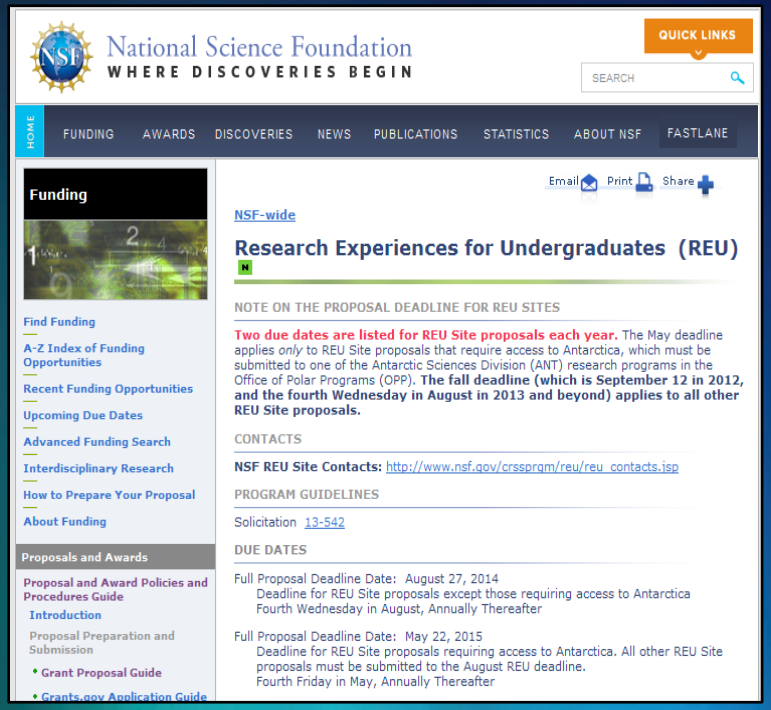
PUIs = accredited institutions that award Associate's, Bachelor's, and/or Master's degrees but have not awarded > 20 Ph.D./D.Sci. degrees in all NSF-supported fields during the combined previous two academic years.

ALL NSF directorates evaluate and fund RUIs and ROAs

They are funded within R & E program allocations

Directorate contacts found at : http://www.nsf.gov/crsspgrm/rui_roa/contacts.jsp

Research Experiences for Undergraduates



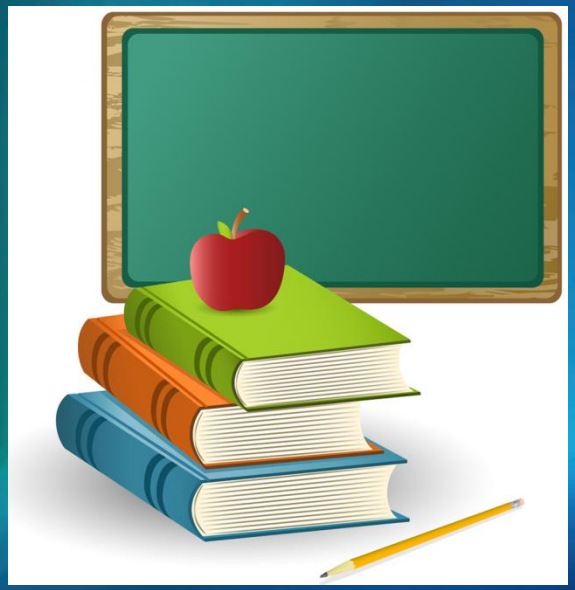
REU Goals:

- Initiate and conduct projects that engage a number of undergraduate students in research.
- Involve in research students who might not otherwise have the opportunity, particularly those from academic institutions where research programs are limited.

Research Experiences for Teachers

RET Goals:

Enable K-12 teachers and community college faculty
to engage in STEM research and then
adapt knowledge into their teaching



- RET Sites and Supplements
- May be included in REU proposals
- Check Directorates for specific mechanisms

Questions?

Lunch

The Merit Review Process

Video

http://www.nsf.gov/news/mmg/mmg_disp.jsp?med_id=76467

NSF's Proposal & Award Process Timeline

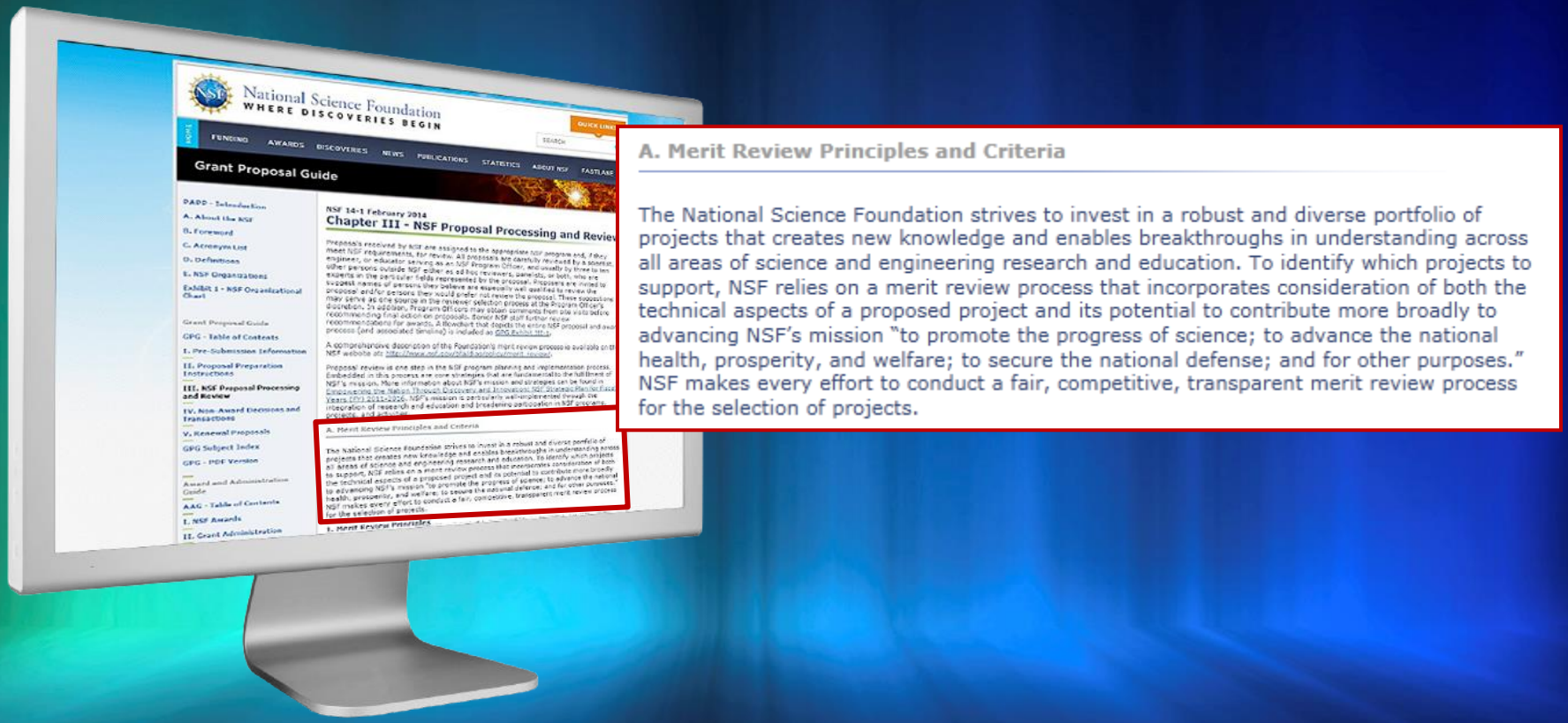
Black Box?

When Preparing Proposals

- Read the funding opportunity; ask a Program Officer for clarifications if needed
- Address all the proposal review criteria
- Understand the NSF merit review process
- Avoid omissions and mistakes
- Check your proposal to verify that it is complete!
- Double Check that the proposal NSF receives is the one you intended to send

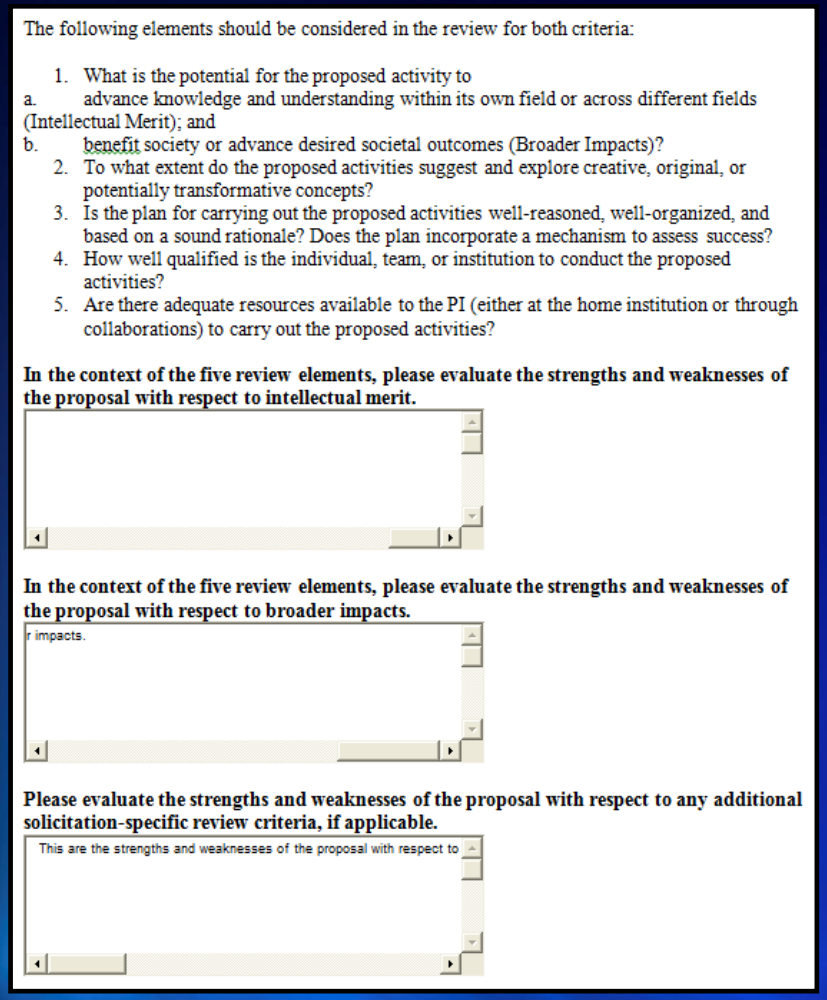
Merit Review Guiding Principles & Criteria

The Grant Proposal Guide (GPG) contains a description of the Merit Review Criteria



Review Format in FastLane

- Reviewers provide feedback to NSF based on the Review Criteria and the Review Elements
- Review Criteria and Elements are available as reviewers provide feedback



The following elements should be considered in the review for both criteria:

1. What is the potential for the proposed activity to
a. advance knowledge and understanding within its own field or across different fields (Intellectual Merit); and
b. benefit society or advance desired societal outcomes (Broader Impacts)?
2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
4. How well qualified is the individual, team, or institution to conduct the proposed activities?
5. Are there adequate resources available to the PI (either at the home institution or through collaborations) to carry out the proposed activities?

In the context of the five review elements, please evaluate the strengths and weaknesses of the proposal with respect to intellectual merit.

In the context of the five review elements, please evaluate the strengths and weaknesses of the proposal with respect to broader impacts.

r impacts.

Please evaluate the strengths and weaknesses of the proposal with respect to any additional solicitation-specific review criteria, if applicable.

This are the strengths and weaknesses of the proposal with respect to

9 Reasons for Proposals to be Returned Without Review (RWR)

1. Does not meet NSF proposal preparation requirements
2. It is inappropriate for NSF funding
3. Insufficient lead time
4. Received a "Not invited" response to the submission after a preliminary proposal
5. Duplicative or substantially similar to a proposal already under consideration
6. Not responsive to the GPG or program announcement/solicitation
7. Does not meet an announced proposal deadline date and time
8. Proposal was previously reviewed and declined and has not been substantially revised
9. Duplicates another proposal that was already awarded

Types of Reviews

- Ad Hoc
  - Proposals are sent out for review
- Panel
  - Face-to Face sessions conducted with reviewers. Held at NSF, or virtually via assistive technologies such as WebEx or BlueJeans
- Combination
  - Some proposals may undergo supplemental ad hoc reviews before or after a panel review
- Internal
  - Reviewed by NSF Program Officers

How are Reviewers Selected?

- **Three or more external reviewers per proposal are selected**
- **Types of Reviewers Recruited**
  - Specific content expertise
  - General science or education expertise
- **Sources of Reviewers**
  - Former reviewers
  - Program Officer's knowledge of the research area
  - References listed in proposal
  - Recent professional society programs
  - S&E journal articles related to the proposal
  - Reviewer recommendations included in proposal

What is the Role of the Reviewer?

- **Review all proposal material and consider**
  - The two NSF merit review criteria and any program specific criteria.
  - Adequacy of the proposed project plan- including the budget, resources, and timeline.
  - Priorities of the scientific field and of the NSF program
  - Potential risks and benefits of the project
- **Make independent written comments on the quality of the proposal content.**

What is the Role of the Review Panel?

- Discuss the merits of the proposal with the other panelists
- Write a summary based on that discussion
- Provide some indication of the relative merits of different proposals considered

Why Serve on an NSF Panel?

- Gain first-hand knowledge of the merit review process
- Learn about common problems with proposals

- Discover proposal writing strategies
- Meet colleagues and NSF Program Officers managing the programs related to your research

How Do I Become a Reviewer?

Contact the NSF Program Officer(s) of the program(s) that fit your expertise

- Introduce yourself as a strong potential reviewer based on your research experience
- Offer to send a 2-page CV with current contact information
- Stay in touch if you don't hear back right away

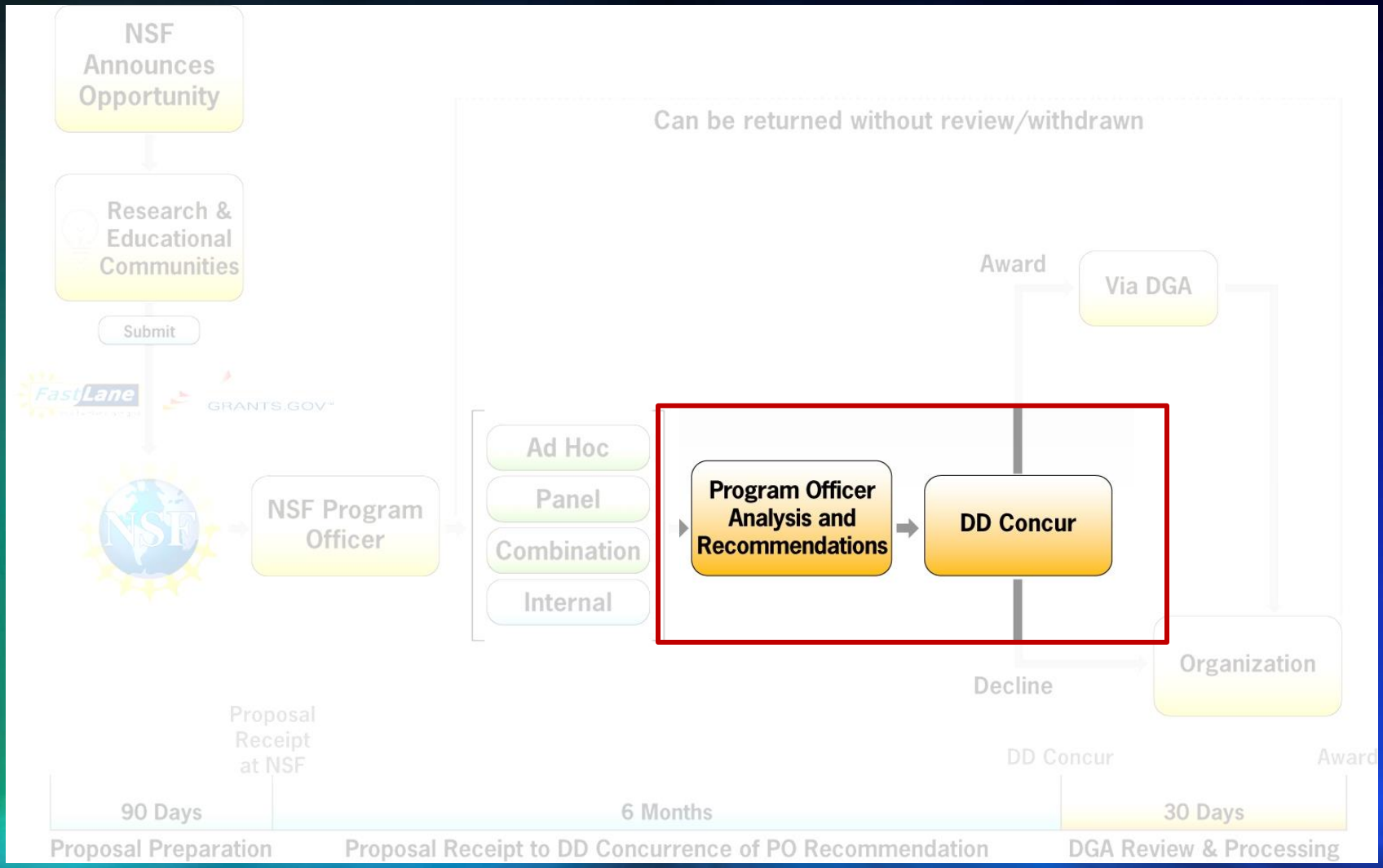
Conflicts of Interest (COI)

What is a COI?

How we address conflict of interest

- **NSF checks and avoids COIs in the review process**
  - **Institutional COIs**
  - **Personal COIs**

Proposal Review and Processing



Funding Decisions
Reviews are Advisory to NSF

- **The merit review process provides:**
  - Review of the proposal and a recommendation on funding.
  - Feedback (strengths and weaknesses) to the proposers.
- **NSF Program Officers make funding recommendations guided by program goals and portfolio considerations.**
- **NSF Division Directors either concur or reject the Program Officers' funding recommendations.**

Feedback from Merit Review

- Reviewer ratings (such as: E, V, G, F, P)
- Analysis of how well proposal addresses both review criteria: Intellectual Merit and Broader Impacts
- Proposal strengths and weaknesses
- Reasons for decline (if applicable)
- If you have any questions, contact the cognizant Program Officer.

Documentation from Merit Review

- Verbatim copies of individual reviews, excluding reviewer identities
- Panel summary or summaries (if panel review was used)
- Context statement (usually)

- Program Officer to Principal Investigator comments (formal or informal, written, email or verbal) as necessary to explain a decision

Examples of Reasons for Declines

- Not considered competitive based on merit review criteria and program office concurrence
- Flaws or issues identified by the Program Officer
- Funds were not adequate to fund all competitive proposals

Revisions and Resubmissions

- Do the reviewers and the NSF Program Officer identify significant strengths in your proposal?
- Can you address the identified weaknesses?
- Can the proposal be **significantly** revised?
- Are there other ways your colleagues or you think a resubmission can be strengthened?

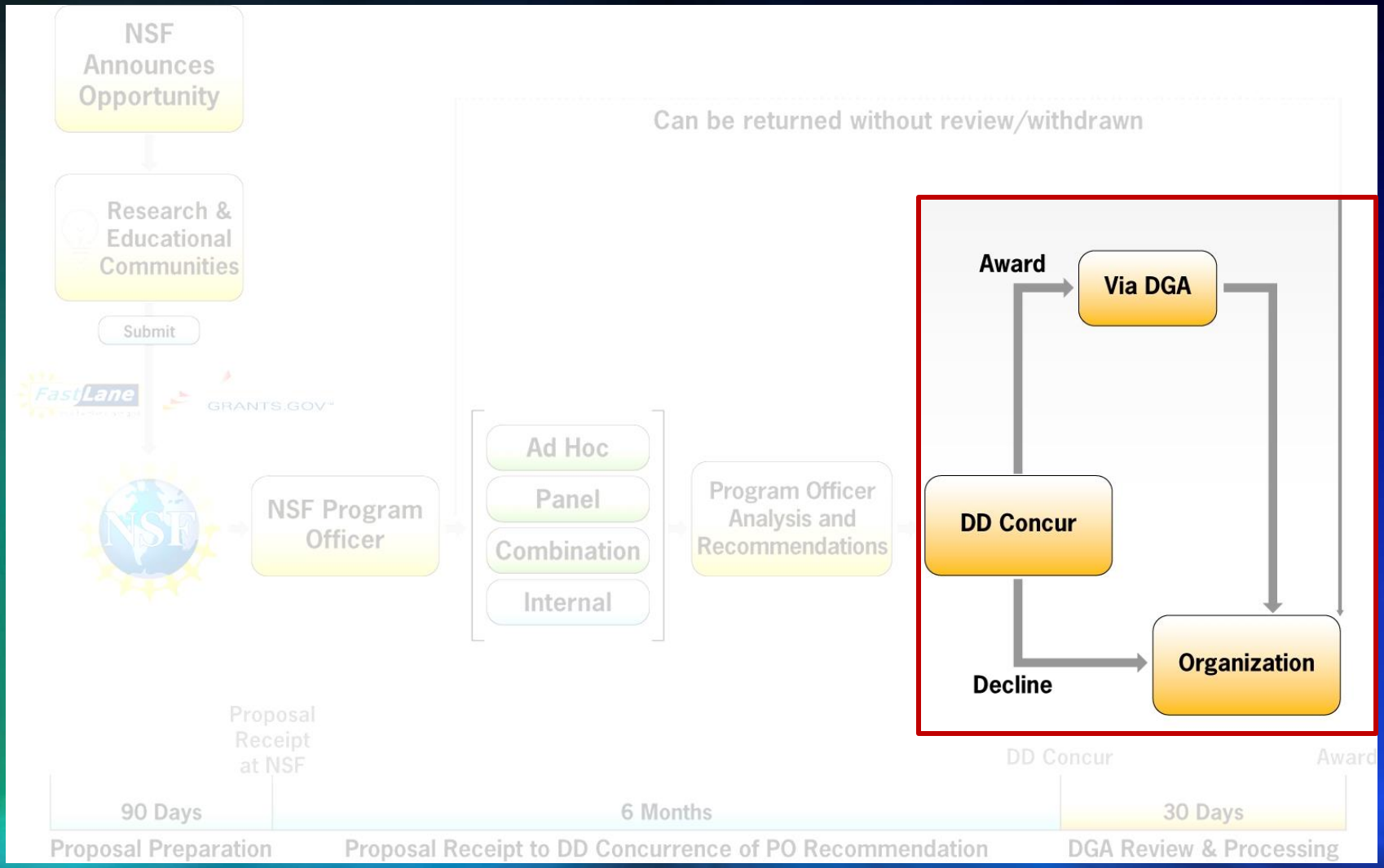
Questions?

Contact your cognizant Program Officer!

Possible Considerations for Funding a Competitive Proposal

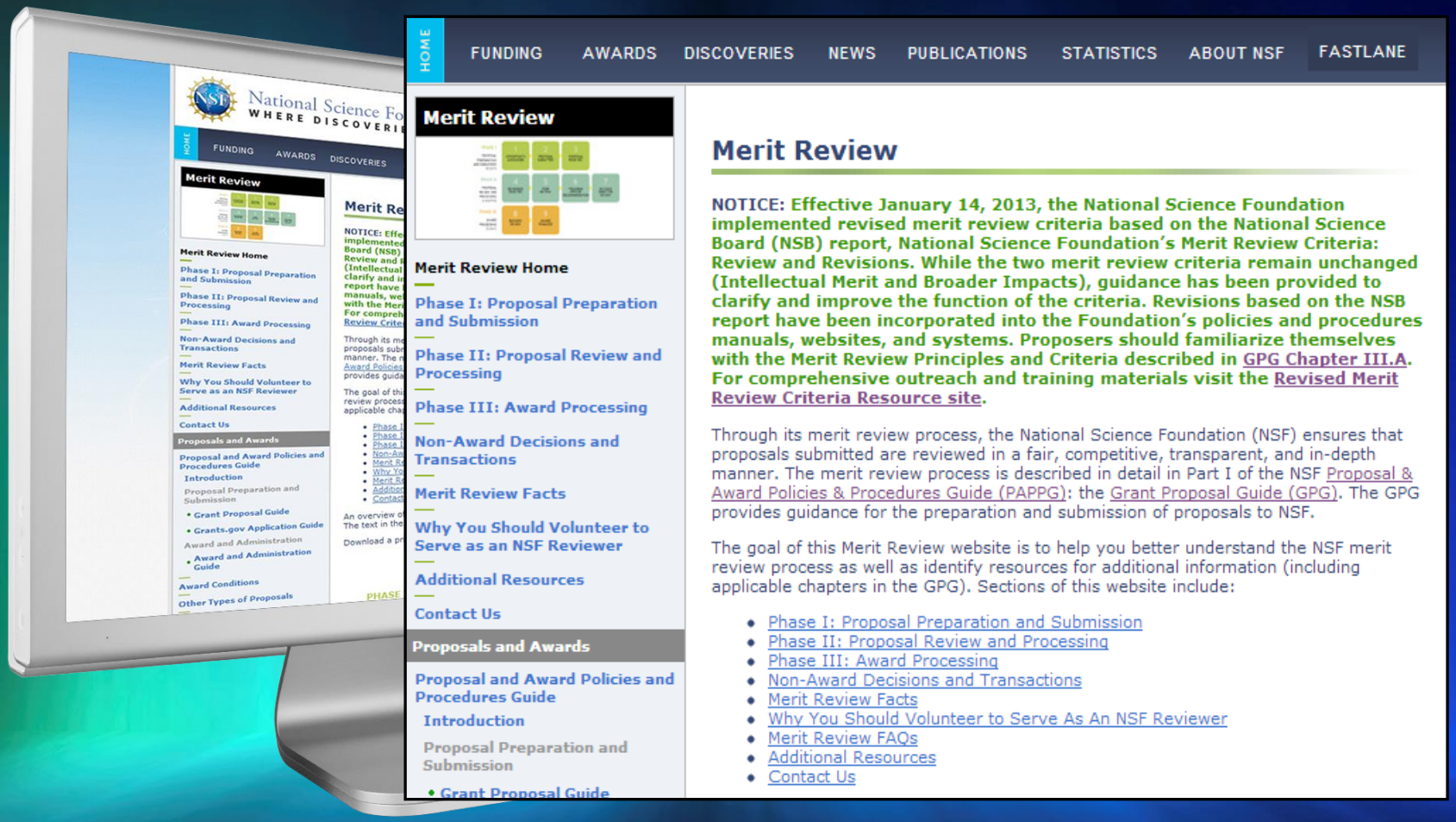
- Addresses all review criteria
- Likely high impact
- Broadening participation
- Educational impact
- Impact on institution/state
- Special programmatic considerations (e.g. CAREER/RUI/EPSCoR)
- Other support for PI
- "Launching" versus "Maintaining"
- Portfolio balance

Proposal Review and Processing



For More Information

Go to NSF's Home Page (http://www.nsf.gov)



Ask Early, Ask Often!

Contact the cognizant Program Officer

Faculty Early Career Development program (CAREER)

http://www.nsf.gov/career

CAREER Awards

Solicitation 15-555

Due Dates:

July 21, 2015	BIO, CISE, EHR
July 22, 2015	ENG
July 23, 2015	GEO, MPS, SBE

http://www.nsf.gov/career

CAREER Awards

Foundation wide
Supports junior faculty
Research and education integration
PECASE eligibility

CAREER Awards

Stable support for 5 years

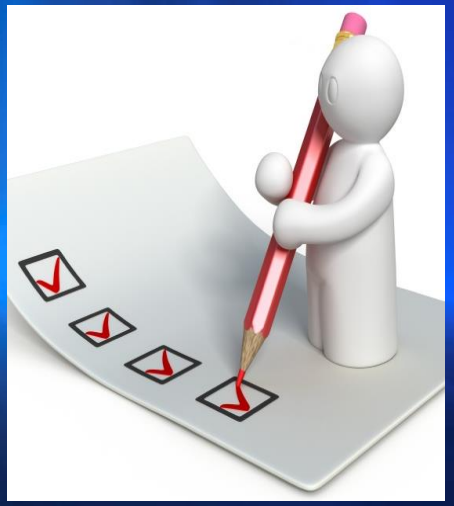
> $400K – CISE, EHR, MPS, SBE

> $500K - ENG, BIO, GEO/PLR

CAREER Eligible Investigators Must:

Hold PhD (by proposal deadline)

Be employed in a tenure-track (or equivalent) position at an eligible institution as an Assistant Professor (until Oct 1st following deadline)



An Eligible Institution Must be:

An academic institution in the U.S., its territories or possessions, and the Commonwealth of Puerto Rico that award degrees in fields supported by NSF.

An eligible institution may also be:

Non-profit, non-degree-granting (e.g. a museum, observatory or lab) if the eligibility requirements of the PI are satisfied.

NSF encourages proposals from different institutional types, including minority serving and undergraduate institutions

CAREER Eligible Investigators May NOT:

- Receive tenure before Oct 1st following proposal deadline
- Have previously received a CAREER award
- Have had more than two CAREER proposals reviewed
- Be an untenured associate professor

CAREER Varies across NSF

- Number of submitted CAREER proposals
- Review and Funding methods
- Other Proposals with which CAREERs compete

NSF CAREER
Coordinating Committee
Sets NSF-wide goals

CAREER Proposals

Contact program manager liaison* and ask about:

- **Expectations for scope of research and education**
- **Assessment of 2 page departmental letter**
- **Funding rate trend for regular proposals in the program of interest**

*** see: http://www.nsf.gov/crssprgm/career/contacts.jsp**

Are CAREER Awards Right for you?

Yes, if:

Your proposed research is innovative, ambitious and within NSF's the purview of research and education supported

You have support from your department/organization, mentors.

You are at the right stage of your career.

CAREER Personnel and Budgets

YES

Consultants, subawards, unpaid collaborators

Academic year buyouts for teaching intensive institutions

NO

Co-PI, senior personnel

CAREER Departmental 2 Page Letter

- Statement of PI CAREER program eligibility
- Support for PI's s proposed research and education activities
- Description of how the PIs career goals and responsibilities mesh with that of the organization and department
- Commitment to support professional development and mentoring of the PI
- NOT a letter of recommendation or endorsement of the PI or the research project

CAREER Awards Urban Myths:

"You cannot apply because you have another NSF award..."

"It is an entry program, so you must first apply to CAREER..."

"I need to see a successful proposal to write a successful proposal..."

"You have no chance, if you are not from a research intensive institution..."

"The education component does not matter..."

"I read on the web that to succeed, I have to...."

"CAREER proposals are more portable than other NSF funding."

Traits of a Successful CAREER Proposal

High quality -- This is a highly competitive program!

Matches disciplinary program expectations

Includes an appropriate scope of activities for a 5-year plan, not one's whole life!

Goes outside the education box of regular research proposals in the field

Strikes a balance between doable research activities and more risky pursuits

PECASE:

Presidential Early Career Awards for Science and Engineering
April 18, 2014

CAREER Awards Resources:

Program Solicitation - NSF 15-555

Frequently Asked Questions - NSF 15-057

CAREER Directorate/Division Contacts

http://www.nsf.gov/crssprgm/career/contacts.jsp

Links to recent CAREER and PECASE awards

Deadlines for 2015

- July , 2015 - BIO, CISE, EHR
- July 22, 2015 - ENG
- July 23, 2015 - GEO, MPS, SBE

Questions?

Break

Directorate Sessions

Thank you for Attending!

Please Complete Your Evaluation!